

OHIO UNIVERSITY BULLETIN  
GENERAL CATALOG ISSUE 1966 - 1967





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OHIO UNIVERSITY BULLETIN  
**GENERAL CATALOG ISSUE 1966 - 1967**

OHIO UNIVERSITY/ATHENS

The fees, programs, and requirements contained in this bulletin are effective with the 1966 Summer Session. They are necessarily subject to change without notice at the discretion of the University.

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## ACADEMIC CALENDAR FOR 1966-1967

### THE 1966 SUMMER SESSION

First term June 13 to July 19; second term July 21 to August 27. For complete calendar announcements see the Summer Session Bulletin.

### FIRST SEMESTER 1966-1967

#### **1966**

Sept. 13	<i>Tues.</i>	Registration for students who did not pre-register.
Sept. 14	<i>Wed.</i>	Classes begin.
Sept. 26	<i>Mon.</i>	Last day to apply for admission to candidacy for a master's degree on January 28.
Sept. 27	<i>Tues.</i>	Last day for registering for the semester. Last day for filing application with payment of fee for graduation on January 28. Last day for adding a course by change order.
Oct. 1	<i>Sat.</i>	Last day to withdraw from a course.
Oct. 8	<i>Sat.</i>	Last day for partial refund of fees to students who withdraw.
Oct. 22	<i>Sat.</i>	Last day for removing incomplete grades incurred during last session in residence.
Nov. 23	<i>Wed.</i>	Thanksgiving recess begins at noon.
Nov. 28	<i>Mon.</i>	Classes resume with first scheduled class.
Nov. 30	<i>Wed.</i>	Advising for second semester; classes dismissed. Last day for Ph.D. candidates to present approved dissertation in form for final editing to Graduate College office.
Dec. 9	<i>Fri.</i>	Last day for master's degree candidates to take comprehensive examination on major course work. Last day for master's degree candidates to present approved thesis in form for final editing to Graduate College office.
Dec. 17	<i>Sat.</i>	Christmas recess begins after last class.

#### **1967**

Jan. 4	<i>Wed.</i>	Classes resume with first scheduled class.
Jan. 19	<i>Thurs.</i>	Last day of classes. Last day for degree candidates to take oral examination on thesis or dissertation.
Jan. 20	<i>Fri.</i>	Examinations begin.
Jan. 23	<i>Mon.</i>	Theses and dissertations due in library and abstracts due in Graduate College office.
Jan. 25	<i>Wed.</i>	Candidates' grades due in registrar's office by 4 p.m.
Jan. 26	<i>Thurs.</i>	Examinations end.
Jan. 28	<i>Sat.</i>	Semester closes; commencement.

## SECOND SEMESTER 1966-1967

Jan. 30	<i>Mon.</i>	Semester opens.
Feb. 1	<i>Wed.</i>	Registration for students who did not pre-register.
Feb. 2	<i>Thurs.</i>	Classes begin.
Feb. 13	<i>Mon.</i>	Last day to apply for admission to candidacy for a master's degree on June 4.
Feb. 15	<i>Wed.</i>	Last day for registration for the semester. Last day for filing application with payment of fee for graduation on June 4. Last day for adding a course by change order.
Feb. 18	<i>Sat.</i>	Last day to withdraw from a course.
Feb. 25	<i>Sat.</i>	Last day for partial refund of registration fees to students who withdraw.
Mar. 11	<i>Sat.</i>	Last day for removing incomplete grades incurred during last semester in residence.
Mar. 25	<i>Sat.</i>	Spring recess begins after last class.
Apr. 3	<i>Mon.</i>	Classes resume with first scheduled class.
Apr. 11	<i>Tues.</i>	Last day for Ph.D. candidates to present approved dissertation in form for final editing to Graduate College office.
Apr. 18	<i>Tues.</i>	Last day for master's degree candidates to present approved thesis in form for final editing to Graduate College office.
Apr. 25	<i>Tues.</i>	Last day for master's degree candidates to take comprehensive examination on major course work.
May 23	<i>Tues.</i>	Last day of classes. Last day for degree candidates to take oral examination on thesis or dissertation.
May 24	<i>Wed.</i>	Reading and review day; advising for September.
May 25	<i>Thurs.</i>	Examinations begin.
May 30	<i>Tues.</i>	Memorial Day holiday.
May 31	<i>Wed.</i>	Theses and dissertations due in library and abstracts due in Graduate College office. Candidates' grades due in registrar's office by 2 p.m.
June 1	<i>Thurs.</i>	Examinations end.
June 4	<i>Sun.</i>	Commencement.

## ACADEMIC ORGANIZATION OF THE UNIVERSITY

### CURRICULA AND DEGREES

#### THE UNIVERSITY COLLEGE

Basic preparation for admission to each of the degree-granting colleges  
Two-year terminal programs leading to the Associate in Arts degree

#### THE COLLEGE OF ARTS AND SCIENCES

Curricula leading to the degrees Bachelor of Arts and Bachelor of Science  
Pre-professional curricula

#### THE COLLEGE OF BUSINESS ADMINISTRATION

Curricula leading to the degree Bachelor of Business Administration

#### THE SCHOOL OF JOURNALISM

Curricula leading to the degree Bachelor of Science in Journalism

#### THE COLLEGE OF EDUCATION

Teacher-training curricula leading to the degree Bachelor of Science in Education

#### THE SCHOOL OF HOME ECONOMICS

Curricula leading to the degree Bachelor of Science in Home Economics

#### THE COLLEGE OF ENGINEERING AND TECHNOLOGY

Engineering curricula leading to the degrees Bachelor of Science in Chemical Engineering, Bachelor of Science in Civil Engineering, Bachelor of Science in Electrical Engineering, and Bachelor of Science in Mechanical Engineering

Curriculum leading to the degree Bachelor of Science in Industrial Technology

The Department of Industrial Arts

#### THE COLLEGE OF FINE ARTS

Curriculum in the School of Architecture leading to the professional degree Bachelor of Architecture

Curricula in three schools leading to the degree Bachelor of Fine Arts

THE SCHOOL OF DRAMATIC ART AND SPEECH

THE SCHOOL OF MUSIC

THE SCHOOL OF PAINTING AND ALLIED ARTS

## THE HONORS COLLEGE

Program provides opportunity for extra study in the liberal arts in addition to concentrating on a major area

## THE GRADUATE COLLEGE

Programs leading to the degree Master of Arts, Master of Business Administration, Master of Education, Master of Fine Arts, Master of Science, and Doctor of Philosophy

## DIVISIONS OF THE UNIVERSITY

### OFF-CAMPUS ACADEMIC PROGRAMS

Air Force Educational Center

Branch Campuses

Belmont County

Chillicothe

Ironton

Lancaster

Portsmouth

Zanesville

Correspondence Courses

Extension Classes

### PHYSICAL EDUCATION AND ATHLETICS

### THE RESERVE OFFICERS' TRAINING CORPS

Air Science

Military Science

### THE SUMMER SESSION

## ADDRESS INQUIRIES CONCERNING:

ADMISSIONS and the acceptance of credits to the DIRECTOR OF ADMISSIONS

CATALOGS, registration, grade transcripts, and general University regulations to the REGISTRAR

CURRICULA and degree requirements of the various colleges to the DEAN OF THE COLLEGE

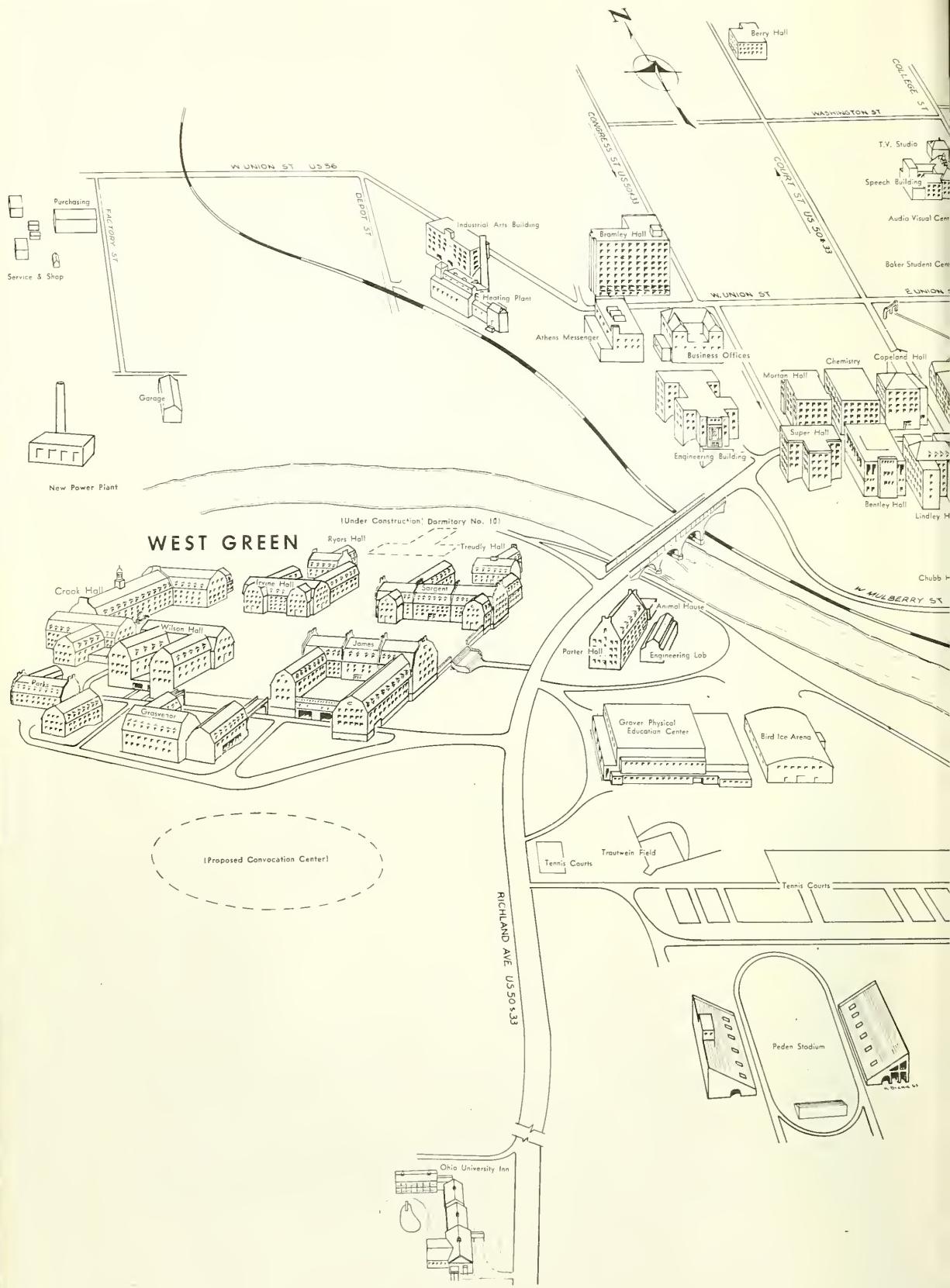
BOARD AND ROOM to the DIRECTOR OF HOUSING

SCHOLARSHIPS, loans, and work opportunities to the DIRECTOR OF STUDENT FINANCIAL AIDS

SPECIAL CONFERENCES and other matters relating to the Summer Session to the DIRECTOR OF THE SUMMER SESSION

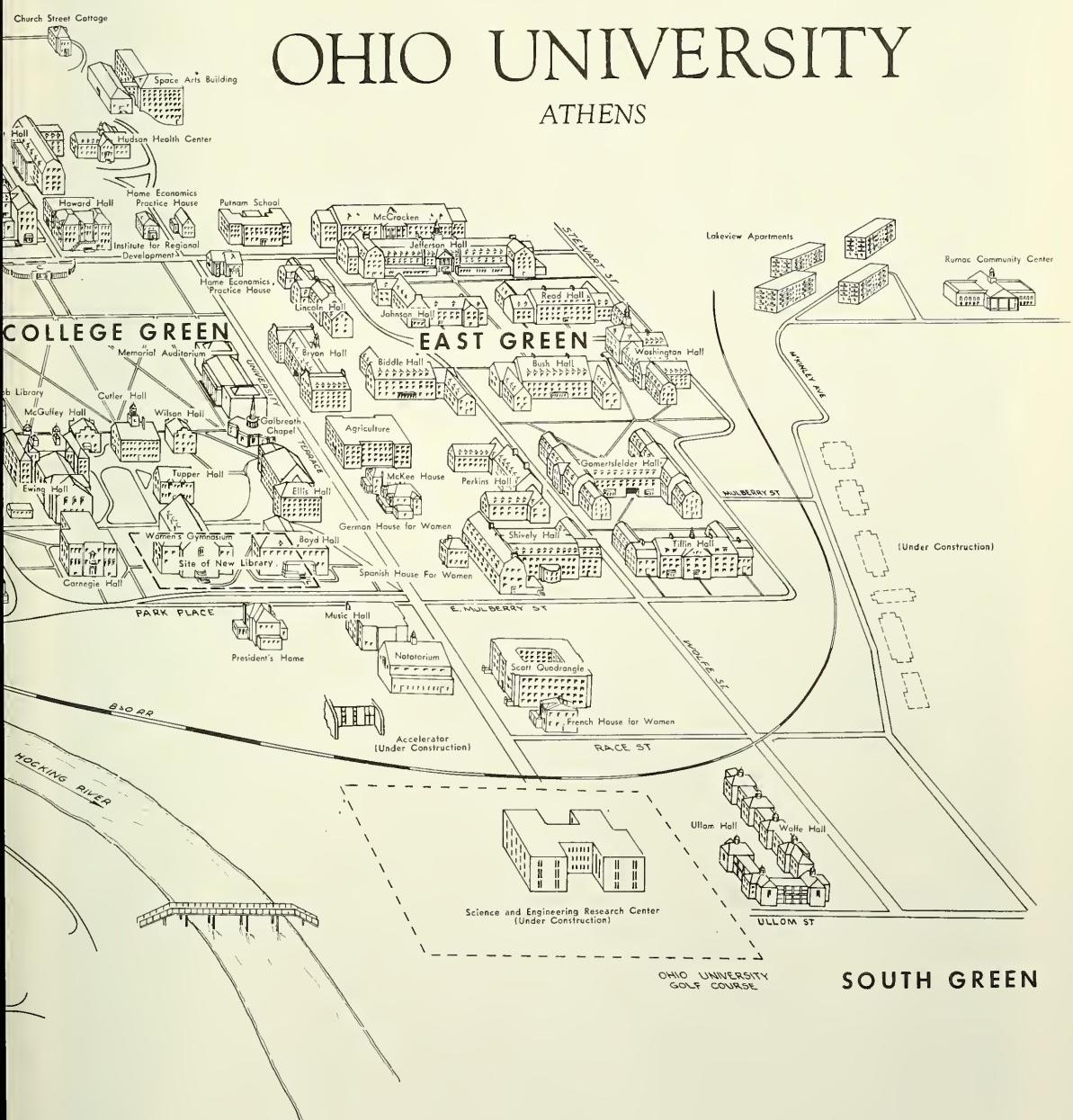
VETERANS AFFAIRS to the COORDINATOR OF VETERANS AFFAIRS

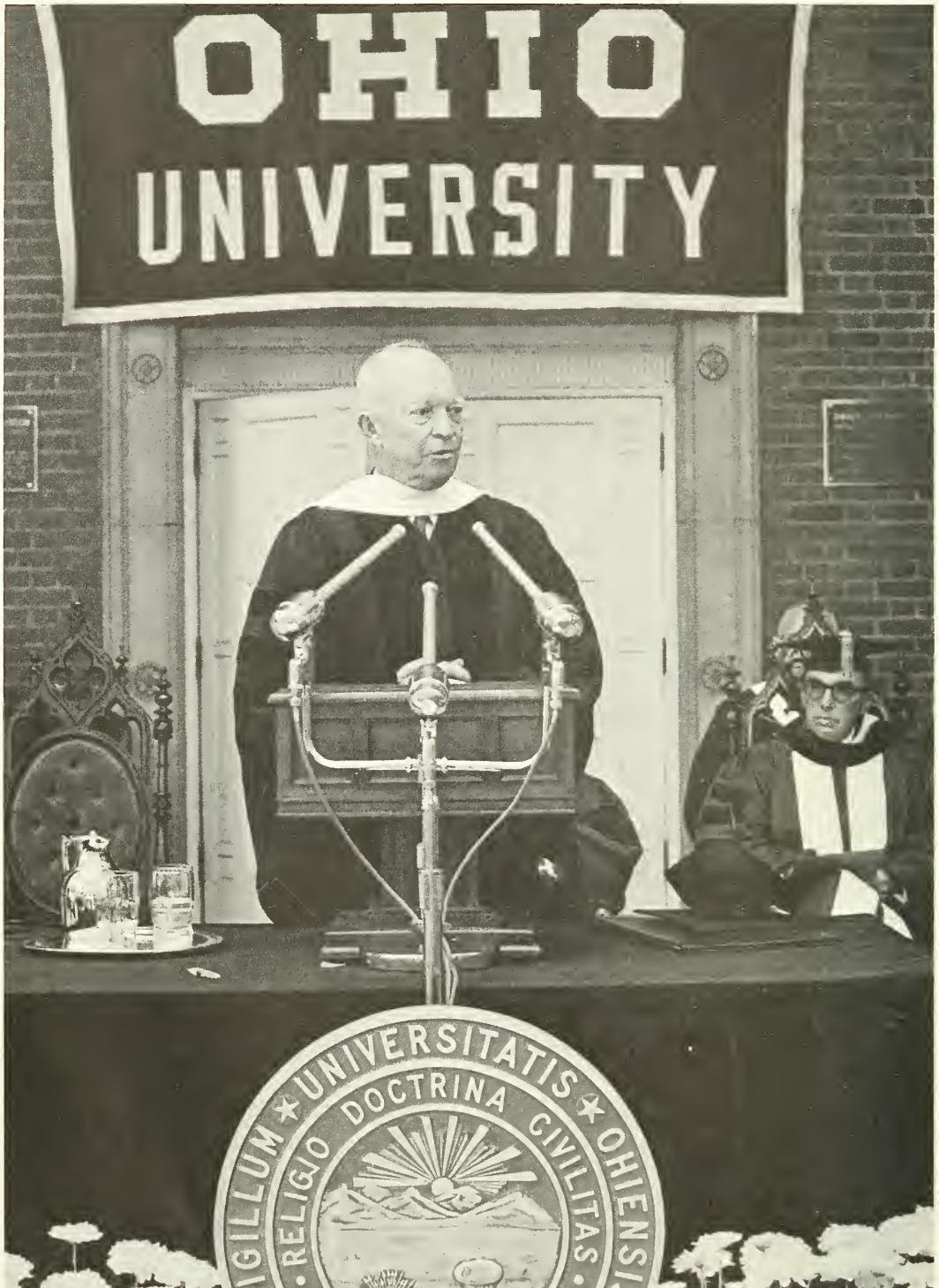
CORRESPONDENCE STUDY and extension classes to the DIRECTOR OF UNIVERSITY EXTENSION



# OHIO UNIVERSITY

## ATHENS





Former President of the United States and retired General of the Army Dwight David Eisenhower, was awarded the honorary Doctor of Humane Letters degree when he visited the campus in 1965. The plaques on the wall of the West Portico of Memorial Auditorium commemorate his visit and the visits of other famous persons.

Information for the  
**PROSPECTIVE STUDENT**

# INFORMATION FOR THE PROSPECTIVE STUDENT

## ADMISSION

### GENERAL ADMISSION INFORMATION

The admission policies and procedures described below are the same for all campuses of Ohio University.

All correspondence pertaining to the admission of an undergraduate to the University should be addressed to the Director of Admissions, Ohio University, Athens, Ohio 45701.

Students are accepted for admission to the University for the Fall Semester, the Spring Semester which begins in February, and, on the Athens campus, to either of the two five and one-half week terms of the Summer Session.

A student entering the University for the first time must file:

1. An admissions application accompanied by the \$15.00 non-refundable application fee.
2. A transcript of all previous high school or college work attempted.
3. The required test results.
4. The medical history and physical examination report. Please note that the physical examination report must include the immunization record. Both a smallpox vaccination and tetanus immunization are required for admission.

A student who is entering from high school may apply for admission at any time after the completion of his junior year. Any decision of admission to the University based on a six or seven semester transcript is provisional. The student who has received a provisional admission is assured of final admission to the University if his work continues to be satisfactory. A supplementary transcript form will be sent with the provisional admission letter for submitting the final report. A final letter of admission will be sent upon receipt of the final transcript. All materials should be sent to the Director of Admissions, Ohio University, Athens, Ohio.

It is important that the applicant send all entrance credentials to the Director of Admissions early enough so that he can be informed concerning his admission to the

session he wishes to enter. If accepted, the applicant will be sent information which he will need for registration at the University. For the Fall Semester, applications usually are not accepted after July 15, nor for the Second Semester after January 1.

### ON CAMPUS RESIDENCE

The admission of a freshman on campus resident student is contingent upon the availability of housing. A housing application and agreement form is not mailed to the student *until after the Director of Housing has been informed of at least the applicant's provisional admission status*. All freshmen under 21 years of age are required to live in University residence halls.

Transfer students may request housing applications through the Director of Housing only *after at least a provisional admission has been granted*.

### SUBJECTS IN HIGH SCHOOL

Because Ohio University accepts graduates of approved high schools in Ohio, no particular pattern of high school subjects is required for admission. However, since prospective students frequently ask what subjects they should take in high school, a suggestion is offered as to a reasonable minimum distribution.

Prospective students are urged to complete elementary algebra and plane geometry in high school. Even though not required for admission, they must be completed to qualify for graduation from Ohio University. *If completed at Ohio University, credit is not allowed toward a degree and the courses are offered only in summer sessions.*

The following distribution of subject matter meets the specific University College requirements (see University College section of the catalog) and prepares the student for the pursuit of any curriculum in the University:

English .....	3 or 4 units
Foreign language .....	2 units
Social sciences .....	2 units
(One of which should be United States history and civics.)	

Laboratory sciences	2 units
(Biology, botany, zoology, chemistry, or physics preferred. General science and senior science do not meet University College requirements. Prospective engineering students should take chemistry and physics.)	
Algebra	1 unit
Plane geometry	1 unit
(Prospective engineering students should also take advanced algebra, solid geometry, and trigonometry.)	
Electives	4 or 5 units
Total	16 units

## REQUIRED TESTS

Each new student is required to submit the results of a college ability test. Ohio residents may submit either the Scholastic Aptitude Test of the College Entrance Examination Board or the American College Test results. Non-Ohio residents must submit the Scholastic Aptitude Test results. Information concerning these tests may be secured at the guidance office in the local high school or at the testing agency. The test results must be submitted directly from the testing agency; scores sent by the high school will not be considered official.

The tests will develop information about the individual student and Ohio University will also use the test results for purposes of classification. The tests will also be used with other information to determine residency status.

## IN STATE REQUIREMENTS

The scholastic requirements for admission and the general registration fee are higher for non-residents of Ohio than for residents of the state.

1. No student shall be considered eligible to register in the University as a resident of Ohio unless he has had bona fide domicile in the state twelve consecutive months prior to registration. There is a strong presumption that one who comes into the state to attend college has a temporary residence, not a domicile.
2. No student whose domicile was outside Ohio in the year preceding his original enrollment in the University shall be considered a resident unless it can be clearly established by him that his

- former domicile has been abandoned and a new domicile established in Ohio and maintained for at least twelve consecutive months. No application for residence of one whose legal residence is not determined by his parents or legal guardian can be considered until the applicant is 22 years of age.
3. No student whose domicile was outside Ohio at any time after his original enrollment in the University shall be considered a resident unless he has established his domicile as stated in paragraph 2.
  4. *Minors:* The domicile of a student who is a minor shall be considered as the same as that of his parents or legal guardian, if any, regardless of emancipation. If an Ohio resident is appointed guardian of a nonresident minor, the latter shall be considered a nonresident until twelve months after the appointment.
  5. *Wives:* A wife shall be classed as a resident student for registration purposes if her husband has had a bona fide residence in Ohio for a period of at least twelve months preceding her registration and is a resident of the state at the time of her registration.
  6. *Losing Ohio Classification:* A student, who at time of entrance is classified as an Ohio resident, loses his Ohio classification if his legal residence is changed to another state, but not until one year has elapsed.

## APPLICANTS

**APPLICANTS FROM OHIO (High School Graduates).** All residents of Ohio who are graduates of approved high schools and who have not attended another college are eligible for admission to the University. A student who has been enrolled for full-time study in another college or has completed 12 semester hours must apply as a Transfer Student.

Because of limited residence hall facilities at the University, only those students who give evidence of the ability to perform satisfactorily in the regular University curriculum will be granted Athens *residency status*. Those students whose predicted grade point average is below the satisfactory level will be admitted with commuter status. Those with commuter status will be expected to attend the University

campus nearest their home. If a student's predicted grade point average is extremely low, it may be necessary for him to enter the University on Special Student status taking a limited program (less than 11 semester hours) until he proves himself capable of performing satisfactorily in the regular curriculum.

Since many more students who are eligible for Athens *residency status* may apply than the University is able to house, the chronological order of receipt of the completed application will be given special consideration when assigning students Athens *residency status*. Those students who apply and are admitted with Athens *residency status* after all available residence halls on the Athens campus have been filled may exercise their Athens *residency status* privileges at another of the University campuses. The latter will be given top priority for residency on the Athens campus when space becomes available. Ohio residents who cannot qualify for Athens *residency status* and who live too far from any campus of the University to commute are counselled to attend the state university campus nearest their home.

**APPLICANTS FROM OUT OF STATE** (High School Graduates). Applicants who are not residents of the state of Ohio are welcome to apply for admission to Ohio University. Their admission will be based on promise of outstanding academic success. In addition to the requirements for admission of a state resident, the out-of-state resident is required to submit the test results of the Scholastic Aptitude Test of the College Entrance Examination Board. Other tests may not be used as a substitute. The student will also be evaluated on the basis of the type of high school attended and the pattern of the subjects studied, especially the subjects which prepare him for college work. Though an interview is not required, it is strongly recommended.

**TRANSFER APPLICANTS.** A student who has been enrolled for full time study in another college or has completed 12 semester hours must apply as a transfer student. He must have a point-hour ratio of 2.25 (4.0 basis), if a resident of Ohio, or 2.5 (C+) if a non-resident of Ohio, on all hours attempted in all his previous college work. He should also be eligible for good standing at Ohio University. A transcript must be submitted of his high school

credits and from each college in which he has been registered, whether or not credit has been granted. Though a final decision of admission will not be granted until all college work has been completed prior to entering the University, a provisional decision of admission can be made based on all work previous to the current term. A false statement on the application for admission with reference to previous college attendance will be considered just cause for denial.

**APPLICANTS FROM FOREIGN COUNTRIES.** An applicant from a foreign country makes application for admission on a special foreign student application blank. This application form is obtained by writing to the Director of Admission, Ohio University, Athens, Ohio.

No application will be considered until complete *official* credentials from all secondary schools, colleges, universities, normal schools, or technical schools attended have been received. These should indicate the degree or diploma received, if any, all subjects studied, and grades, marks, or standing achieved in examinations. If original documents are issued in native language, the original documents or certified copies thereof shall be accompanied by *official* translations in the English language. Three letters of recommendation should be submitted, including one from an administrative officer of the last educational institution attended and one from a teacher. An autobiographical sketch of 300 to 500 words should also be submitted.

**ENGLISH CERTIFICATION.** It is necessary that a student from abroad possess a degree of fluency in speaking English and a sufficiency in understanding the language that will warrant the belief that he can succeed in classroom situations where only English is used. It is necessary, therefore, that an applicant for admission provide certification to this effect.

Those seeking admission should contact the nearest American Embassy or Consulate and ask to take the English language test provided by the United States Department of State. The test will be administered by a consular official and the results forwarded directly to Ohio University.

**HEALTH CERTIFICATION.** A statement filed by a licensed physician certifying to the state of the applicant's health and giving satisfactory evidence of smallpox vaccination

tion and tetanus immunization must be submitted in connection with the application for admission.

The medical form is provided by Ohio University and must indicate that the applicant is:

1. Free from contagious or communicable disease.
2. Able physically and mentally to perform satisfactorily as a full-time student.
3. Sufficiently stable, emotionally, to make adjustment to an American university environment.
4. Vaccinated against smallpox.
5. Immunized against tetanus.

**GRADUATE STUDENTS.** Requirements for admission to the Graduate College are outlined in the Graduate College section of this catalog.

**SPECIAL STUDENTS (Non-degree).** A mature person (whether or not a high school graduate, and ordinarily 21 years of age or over) not planning to work toward a degree or diploma, may be accepted as a *Special Non-Degree Student*. Such a person must file an application for admission to the University and clear through the Admissions Office. He is permitted to carry a full class load and may take any courses for which he is qualified.

Such a student, however, must be able to qualify for admission and is not permitted to retain this special status after he has accumulated 32 semester hours of credit at Ohio University or its Branches; or is within 32 semester hours of having sufficient credit for a degree. He must then make application for admission as a *Regular Student* and provide all the information required as an accompaniment to such an application.

A student who has not yet graduated from high school may be accepted as a *Special Part-Time Student* for university-level work provided:

- a. He has made an outstanding high school record in general, and in some special area of study in particular.
- b. He has completed all work offered by the high school in the special area field.
- c. He has been recommended by his high school teacher in the special subject field and by the high school principal.
- d. His completion of requirements for the high school diploma is assured.

**SPECIAL STUDENTS. (Transient).** A student who has attended another college and who wishes to acquire credit to be transferred to the former school may be accepted as a *Special Transient Student* upon presenting evidence of good standing at the school formerly attended and a statement certifying that the credit will be accepted upon transfer.

## ADVANCED PLACEMENT PROGRAM

Ohio University subscribes to the principle that every student of superior ability should have the opportunity to be placed in a secondary school program suited to his abilities and is preparation for college study. It therefore supports the Advanced Placement Program which has been developed by the College Entrance Examination Board. This program encourages secondary schools to establish college-level courses in the following fields: American History, Biology, Chemistry, European History, French, German, Latin, Literature and English Composition, Mathematics, Physics, Russian, and Spanish.

The student who enrolls for one or more of these courses is eligible to take an examination in each area completed. The examination is prepared by the College Board and the papers are graded by readers of the Educational Testing Service, Princeton, New Jersey. The examination paper, with the grade and an interpretation of the grade, a set of the examination questions, a description of the course as prepared by the school in which the work was done, and the school's recommendation, are forwarded to Ohio University. Advanced placement and credit will then be determined under policies adopted by the various departments of the university.

A bulletin on "Advanced Placement and Credit" may be secured from the Director of Admission, Ohio University.

## ADVANCED STANDING EXAMINATIONS

Application for an advanced standing examination is made with the dean of the student's college for any course listed in the current catalog in which the student feels he has attained the necessary proficiency, and for which he desires credit without taking the course in class, provided the

course lends itself to an examination. An advanced standing examination may not be taken to alter a passing grade at Ohio University. The application must be approved by the dean and the chairman of the department. Only a student who is enrolled for a minimum of six semester hours as a resident student of Ohio University is eligible to make application. A fee of \$5, payable in advance, is charged for each semester hour of credit involved.

Credit for the course is granted when a student receives at least a C grade and has completed at least 15 semester hours of credit at Ohio University with a point-hour ratio of 2.0. If a student who has not completed 15 semester hours is granted permission to take an examination for advanced standing, the credit is withheld until he has earned the required amount.

Any grade received on the examination for advanced standing becomes a part of the student's academic record and is used to compute the point-hour ratio.

## FEES

Official enrollment is completed when fees due have been paid. Fees are payable at the Business Office prior to the opening of classes and in accordance with instructions issued with registration materials for those paying in full; and as scheduled for those students participating in the *Fee Equalization Plan*. The Fee Equalization Plan has been established for those students wishing to pay basic fees in equal payments over a period of months. Full information on the plan is automatically sent to each student who applies for housing. Checks and money orders should be drawn in favor of Ohio University in the exact amount of the fees. If paid by mail, parents should address the check to the student in whose name the account is carried. It is important that the student retain all fee receipts.

Payment of fees owed is a prerequisite to official enrollment, and all students should have sufficient funds to cover these expenses. Post-dated checks will not be accepted. Checks issued to the University and not paid on presentation to the bank, will automatically cancel any receipts given and result in the assessment of penalties.

Ohio University reserves the right to make, without prior notice, any fee adjustments that may become necessary.

## REGISTRATION FEES

	Resident of Ohio	Non- resident
Matriculation fee (non-returnable) .....	\$ 10.00	\$ 10.00
Required of every student on first enrollment in the University.		
<b>THE SEMESTER:</b>		
Comprehensive fee for load of 12 to 18 hours, inclusive, all colleges and curricula .....	250.00	500.00
Includes the general registration fee, the student activity fee, student service fees such as health, library, and testing, and course and laboratory fees. Excludes fees for private instruction as in music and bowling, which are listed in the course descriptions.		
Extra fee for each semester hour in excess of 18 hours .....	20.00	38.00
Fee for each hour for load of 7 to 11 hours, inclusive .....	20.00	38.00
Fee for each hour for load of 1 to 6 hours, inclusive .....	18.00	35.00
The fee for 1 to 6 hours does not carry with it the privilege of a student activity card or the use of the Health Service.		
Auditors pay fees in full as above.		
<b>THE SUMMER SESSION:</b>		
Fees for each term are proportionate amounts of the semester fees. See Summer Session bulletin for details.		
<b>CORRESPONDENCE STUDY:</b>		
Registration for each semester hour .....	12.00	13.00
<b>EXTENSION AND EVENING SCHOOL CLASS:</b>		
Registration fee, each semester hour .....	15.00	30.00

Fee is increased if class is organized with an enrollment below the required quota.

## MISCELLANEOUS FEES

Admission Application filing fee for undergraduate .....

for graduate student .....

Change of course or change of college .....

Entrance Tests, when not taken at the designated time .....

Duplicate official forms, fee receipts, grade report, etc. ....

Examination for advanced standing, each semester hour .....

Graduation—

Application for baccalaureate or graduate degree .....

Application for Associate in Arts degree .....

Re-application .....

Penalty for late application .....

Diploma mailing fee for those absent from commencement .....

Late registration or late payment of fees—\$3.00 Minimum, \$10.00 Maximum .....

Dissertation Microfilming .....

Dissertation or Thesis Binding, Each copy .....

Transcript of record, after first transcript request .....

Group requests of five to ten copies, \$5.00; up to twenty copies, \$10.00 .....

Vocational Counseling Fee for students and prospective students .....

Motor Vehicle Registration Fee .....

15.00		University for the amount determined according to the refund regulations.
5.00		Refunds are issued thirty days after date of withdrawal.
2.00		
2.00		
1.00		
5.00		
15.00		<b>EXPENSE ESTIMATE</b>
7.50		The following is an estimate of expenses for a resident of Ohio for one eighteen-week semester at Ohio University:
5.00		Comprehensive registration fee \$250.00
5.00		Rent of room in residence hall (minimum) ..... 135.00
2.00		Board in residence hall ..... 234.00
3.00-10.00		
25.00		Total for semester ..... \$619.00
3.75		The estimate does not include the cost of books and supplies which amounts to approximately \$50 a semester for the average student.
1.00		
5.00		The differences in the costs of attending the University are to be found in such personal maintenance expenditures as those for laundry, clothes, recreation, and other incidentals. These may vary greatly and are determined by the individual's tastes and interests.
4.00		The University does not make provision for handling student accounts. This service is available through local banks.

## RESIDENCE FACILITIES

### GENERAL INFORMATION

Ohio University residence facilities meet the varying needs of students. The combination of University and private ownership allows a student to maintain an environment which is conducive to realization of his full academic potential. The residence facilities are grouped into five classifications.

1. University Residence Halls
2. Associated University Residence Halls
3. Supervised Units
4. Unsupervised Units
5. Married Student Apartments

The classifications can be further broken down as they pertain to the students involved.

**SINGLE FRESHMEN**—All single freshmen, except those 21 years of age and over, must live in University or University Associated Residence Halls. This also applies to married freshmen, except those 21 years of age and over, whose spouses do not reside with them in Athens.

## REFUND OF FEES

Voluntary and official withdrawal from the University entitles the student to a refund of 80 per cent of the comprehensive fee if he withdraws within the first and second weeks of a semester, and 50 per cent if he withdraws within the third and fourth weeks. A week is interpreted to mean a calendar week and ends at noon on Saturday.

If a student withdraws from the University before he pays his registration fees or before he completes full payment of fees, he is considered indebted to the

**SINGLE UPPERCASSMEN AND GRADUATE STUDENTS**—Single upperclassmen under 21 years of age must reside in either University Residence Halls, Associated University Residence Halls or Supervised Units. Single upperclassmen 21 years of age and over and single graduate students may, in addition, reside in unsupervised approved units. These regulations also apply to married upperclassmen in the stated age categories whose spouses do not reside with them in Athens.

**MARRIED STUDENTS**—Married students, if spouses reside with them in Athens, are not required to live in approved units and apartments. However, University apartments and approved University related privately owned apartment units are available and are described in the section on Married Student Apartments.

**BOARDING**—Many students who do not live in University or Associated Residence Halls prefer to eat in University dining halls. The University makes it possible for these students to register as "outside boarders" and pay the same board rate assessed those living in University residence halls. These arrangements are made through the Housing Office.

**APPROVAL OF RESIDENCE FACILITIES**—All supervised and unsupervised privately owned residence facilities must meet the health, safety and sanitation standards of Ohio University, the City of Athens and the Ohio Department of Health. The units are subject to periodic inspection by the Office of the University Sanitarian to ensure that standards are being maintained.

**NON-DISCRIMINATION POLICY**—Ohio University has a policy against discrimination based on race, religion and national origin. This policy is observed in the admission of students to the University and in the use of all University facilities. To obtain an approved rating with the Housing Office of Ohio University, all private owners of residence facilities must also adhere to this policy.

## UNIVERSITY RESIDENCE HALLS

Residence hall living at Ohio University offers a rounded program which includes counseling, student government participa-

tion, and intellectual, cultural, social and recreational activities.

Within each of the 27 residence halls, the student government functions under the policies and standards established by the University. Through student government, campus leaders have an opportunity to take part in decision-making processes and other activities.

Each residence hall is under the supervision of a residence director who is a member of the staff of either the Dean of Men or Dean of Women. Graduate students and upperclass student counselors assist in the administration of the halls and in student counseling activities.

The residence halls, convenient to other University buildings and to downtown Athens, contain lounges, libraries, card rooms, study rooms and recreation areas.

**APPLICATION**—Applications for rooms in University residence halls will not be forwarded until a student has been accepted for admission by the Director of Admissions. These applications when received by the student must then be sent to the Director of Housing, Ohio University, Athens. They will be considered only if accompanied by the advance payment \$140 which includes a \$5 retaining fee. The retaining fee is not part of the room rent and is non-refundable.

**CANCELLATION**—After August 1, prior to the first semester, and January 1, prior to the second semester, the University residence hall contract cannot be cancelled except by those persons who did not complete registration or who have officially withdrawn from the University. Refunds will be made according to the refund schedule which is explained in the residence hall application form.

All University residence hall contracts cover the full academic year from September to June and provide both room and board. Those who choose to live in University residence halls are held to the year's contracts. This regulation applies also to Athens residents and those who live within commuting distance of the campus.

**ROOM**—In the residence halls two or more students are assigned to each room which is furnished with beds, innerspring mattresses, mattress covers, dressers, study desks, chairs and bed linens. The student must provide his own blankets, towels,

study lamp, curtains, etc. Semester room rates for each student range from \$140 for a standard triple to \$167 for a standard double.

**BOARD**—Residence halls on the East and West Greens and Voigt Hall on the College Green are served by central dining halls. Other halls have their own dining facilities. Dieticians supervise the preparation and serving of well-balanced and varied meals. Special diets are prepared in those cases recommended by the Director of the University Health Service. Meals are not served during the Thanksgiving, Christmas and Spring recesses. The board rate is \$234 per semester.

All residents of University residence halls are required to eat in University dining halls during both semesters or summer session.

**PARKING**—Parking spaces are available in the East and West Green residence hall garages at a rental rate of \$35 per semester. Assignment to these garages is made in order of the applications received. Applications for garage spaces may be made by writing to the Director of Housing.

**SUMMER SESSION**—During summer sessions the room rate for each five and one-half week term is \$61 for a single room and \$41 for a double. The board rate for each term is \$65 including Saturday and Sunday meals or \$55 excluding weekends.

## ASSOCIATED UNIVERSITY RESIDENCE HALL

A privately-owned, co-educational residence hall, under private management, Bromley Hall operates under the same regulations as the University residence halls. The nine-story, air conditioned hall accommodates 580 students and is located within one block of the College Green. Each bedroom floor has a leisure room, study room, typing room, and ironing room. The hall also includes a language laboratory, study laboratory, music appreciation room and recreational facilities including an indoor swimming pool.

The room and board rate for Bromley Hall for 1966-67 is \$1400 for the full year or \$700 a semester. Contractual arrangements are between the students or student's parents or guardians and the Director of Bromley Hall. For further information

write to: Director, Bromley Hall, Athens, Ohio.

## SUPERVISED UNITS

All supervised units are privately owned and must be approved by the Office of the Dean of Students. Proctors and landlords are responsible to the University for the observance of all University student regulations.

**PRIIVATELY OWNED APARTMENTS**—Certain units of approved University related, privately owned apartments are supervised and available to single freshman 21 years of age and over. They are also available to single upperclassmen and graduate students. Rates vary, and are based upon apartment size, furnishings and the number of students assigned to an apartment. Further information may be obtained by writing directly to the director listed in the section on Married Student Apartments.

**FRATERNITIES AND SORORITIES**—Ohio University's 13 sororities and 20 fraternities provide accommodations in small units for approximately 350 women and 600 men. Freshmen who pledge sororities or fraternities must remain in University residence halls for the remainder of the academic year.

Information concerning sorority and fraternity residence facilities may be obtained from the Dean of Men or the Dean of Women.

## UNSUPERVISED UNITS

**PRIVATE ROOMS**—Approximately one-third of the students at Ohio University occupy rooms in private homes, rooming houses or apartments near the campus. Rents for rooms in the community will vary greatly. Listings of unsupervised private residence facilities are available through the Housing Office.

The University requires that approved housing agreement forms be used by the student and householder. Copies of the form must be filed in the Office of the Dean of Men or the Office of the Dean of Women.

Further information may be obtained by writing directly to the director listed in the section on Married Student Apartments.

## MARRIED STUDENT APARTMENTS

University apartments and privately owned University related apartments are available to married students. The privately owned apartments listed in this section are also approved ones since certain individual sections of these apartments are supervised for single student occupancy. Apartments for faculty are also available in these privately owned units. For students the contractual arrangements are between the student or the student's parent or guardian and the director of the apartment unit.

**UNIVERSITY APARTMENTS** — Fifty-two colonial style brick units are located on Wolfe Street adjacent to the University Golf Course. The apartment furnishings include a range, refrigerator, hide-a-bed, six drawer chest, kitchen table with four straight chairs, combination desk-dresser, double bed, two lounge chairs and a wall mirror. Laundry rooms with coin-operated automatic machines are available to residents. Rental per month, including utilities, is \$70 for studio apartments, \$85 for one bedroom, \$95 for one bedroom and nursery, and \$110 for two floor units.

All applicants must be registered for a minimum of 12 hours each semester. Graduate assistants are permitted a minimum of eight hours. An assignment to University married student facilities includes the obligation and responsibility to meet the terms and conditions of occupancy as stipulated in the contract.

Assignments to University facilities for married students are made, as available, on the basis of the date of receipt of applications with an accompanying security deposit of \$25. The deposit is not applicable to rent and will be refunded after vacating, provided all the conditions prescribed in the rental contract are met, and after the unit has been properly inspected by the Housing Office.

**ATHENS APARTMENTS**—The Athens Apartments, located on U.S. Route 50 West, approximately two miles from the College Green, offer apartment-style living for married students and single graduate and undergraduate students alike. Twenty-four one-bedroom units and 36 two-bedroom units are available for rental either furnished or unfurnished. Rentals range from

\$95 to \$140 and include heat and water. Each unfurnished apartment is equipped with a range and refrigerator. For further information write: James Knaus, Athens Apartments, Route 50 West, Athens, Ohio.

**LAKEVIEW MANOR APARTMENTS** — The Lakeview Apartments are adjacent to the East Green. Available facilities include 25 efficiency apartments, 40 one-bedroom apartments, 77 two-bedroom apartments, and 12 three-bedroom apartments. Units are available both furnished and unfurnished and rental rates include both heat and water. All units are equipped with a range, refrigerator and air conditioning. Rental rates run from \$100 for the efficiency units to \$210 for the furnished three-bedroom apartments. For further information contact Mrs. W. A. Smith, 33 North McKinley, Athens, Ohio.

**CARRIAGE HILL APARTMENTS** — The Carriage Hill Apartments, located on Richland Avenue, offer a diversity of facilities. The nine efficiency apartments, 99 one-bedroom units, and 108 two-bedroom units, can be rented either carpeted or uncarpeted, furnished or unfurnished, and include such features as a range, refrigerator, garbage disposal and optional air conditioning. Rental rates run from \$69.60 to \$129.50. For further information contact The Area Development Company, Lakeview Center, North McKinley Avenue, Athens, Ohio.

**CONCORD PLACE TOWN HOUSES**—The 100 unit Concord Place Town Houses are located south of the College Green off Richland Avenue at the intersection of Hastings Road and Hooper Street. The units are provided with a range, refrigerator, garbage disposal and air conditioning. Rents are \$120, including heat and water, for the two-bedroom units, and \$130, including heat and water, for the three-bedroom units.

**PLAZA APARTMENTS** — Located on U.S. Route 50 East, the Plaza Apartments are comprised of 14 fully carpeted, unfurnished two bedroom units. Rentals, which include water, are \$110 and \$120 plus utilities. Each apartment is equipped with a range, refrigerator and air conditioning. For further information contact Mr. James Mallett, Route 3 East, Athens, Ohio.

## FINANCIAL AIDS

Ohio University assists students in furthering their education by providing scholarships, loans, and employment. All scholarships and loans are awarded by the Ohio University Scholarship Committee. Unless otherwise indicated, these awards are based upon academic promise, financial need, character, recommendations, and activities.

### SCHOLARSHIPS

#### FRESHMAN

**REGULAR FRESHMAN.** Awarded to high school graduates on the basis of class rank, score on the American College Test, need, character, recommendations, and high school activities.

**GALBREATH SCHOLARSHIPS.** A grant from Mr. John W. Galbreath, '20, provides 10 scholarships to outstanding freshmen on the basis of academic promise, need, citizenship and personal qualities.

**JAMES W. FAULKNER MEMORIAL FUND SCHOLARSHIP.** This scholarship is awarded to a worthy and needy student of journalism, who must be a resident of Ohio.

**LICHTER GRANTS-IN-AID.** Through a gift of the Licher Foundation of Cincinnati, 15 grants-in-aid are available each year to high school graduates having financial need who desire an opportunity to work their way through college.

A successful applicant who finds that the grant-in-aid, his own earnings, and other help from outside sources are not sufficient to cover school expenses, will have the opportunity to borrow from the Licher Loan Fund after the freshman year.

**OHIO ACADEMY OF SCIENCE.** Available to winners in the Ohio Academy of Science competition for high school seniors. Awards are based upon the general Ohio University requirements, and an approved rating in the National Science Talent Search Test or in a science test given by the Ohio Academy of Science.

**GENERAL MOTORS.** There are two freshman awards each year. They are highly competitive in evaluation as the stipends vary to include the full need of the recipients.

#### FRESHMAN AND UPPERCCLASS

**HONOR.** Awards for freshmen or upperclassmen are based on a student's high

school or college academic record, extra-curricular activities and recommendations. Awards are limited to \$50 annually. The University also awards scholarships based on a student's academic achievements, interests and activities, and need which normally cover the comprehensive registration fee except for \$50 per semester.

**BRANCH CAMPUS.** Ten freshmen and 10 sophomore scholarships may be awarded annually in each of the six branch campuses. Locally sponsored scholarships for branch campus students are also available. Each branch campus also makes available cadet teaching scholarships which cover all registration fees except library, laboratory, and miscellaneous fees. These scholarships are based upon the general scholarship requirements.

**ATHENS MERCHANTS.** The merchants of Athens each year donate varying amounts of money to a scholarship fund for students from the Southeastern Ohio district.

**ALUMNI AND MOTHERS CLUB.** Scholarships in varying amounts are awarded annually by Ohio University Alumni and Mothers Clubs located throughout the state. These awards are usually granted to high school seniors graduating from the immediate areas of the organization, or to students already enrolled from these areas.

**ANCHOR HOCKING.** The Anchor Hocking Scholarships have been established by the directors of the Anchor Hocking Glass Corporation, Lancaster, Ohio. Those eligible to apply for these awards are seniors or graduates of all high schools in counties in which the corporation's plants and offices are located.

**SPECIAL MUSIC.** Available in limited number to students with special ability and promise in music. These scholarships provide for remission of the general registration fee and for the remission of the applied music fee. Interested students should write directly to the Director, School of Music, Ohio University, Athens, Ohio.

**EDUCATION.** Available in limited number to those who plan to enter or who are presently enrolled in the College of Education. These scholarships are based upon the general scholarship requirements.

**ENDOWED.** Ohio University alumni and friends have contributed nearly \$500,000 to the Endowed Scholarship Fund. The average value of these scholarships is \$350.

## UPPERCLASS

**REGULAR UPPERCLASS.** Available to students who have completed at least two semesters in residence at Ohio University. A point-hour ratio of 3.0 (B) is required to be eligible for such an award. Also used as a basis are need and college activities.

**ENGINEERING.** Each year several industrial concerns furnish scholarship funds for upperclass engineering students. Current sponsors are: The Western Electric Fund, New York; Square D Foundation, Park Ridge, Illinois; Alcoa Foundation, Pittsburgh, Pennsylvania; The Cooper-Bessemer Corporation, Mount Vernon, Ohio; and the H. K. Ferguson Company, Cleveland, Ohio. The grants, which range from \$500 to \$650 annually, are subject to renewal each year.

**AIR FORCE ROTC.** This award offers a financial assistance grant which can be as much as \$1,000 per year during the junior and senior years. For details contact the Air Force ROTC Department, Room 104, Carnegie Hall.

**AMERICAN BANKER'S ASSOCIATION.** The Association's Foundation for Education in Economics allocates annually a \$250 loan scholarship to the College of Business Administration for a deserving student of senior rank or above whose major course is in banking, economics, or related subjects.

**HASKINS & SELLS FOUNDATION GRANT.** Haskins & Sells, Certified Public Accountants, will award \$500 to an outstanding senior accounting student chosen by the accounting faculty as showing high promise for success in the public accounting profession.

## FOREIGN STUDENT

Each year a number of scholarships are awarded to students from foreign countries. These scholarships are based upon past academic performance and financial need. The scholarship covers the out-of-state fee as well as the general registration fee. Applicants should submit data to the Institute of International Education, 809 United Nations Plaza, New York, New York, and indicate Ohio University as a preference.

## GRADUATE

Available to graduate students who have maintained a high scholastic average. These awards cover the basic resident or non-resident registration fee. Applications should

be filed with the Dean of the Graduate College, Ohio University, Athens, Ohio.

## NATIONAL AWARDS FOR GRADUATE STUDY

Upperclass undergraduate students having at least a B average, and anticipating graduate study are strongly encouraged to investigate certain scholarships and fellowships available from national foundations and other sources. These carry a large measure of national distinction in addition to generous financial support. Some of these awards can be used at Ohio University or at other universities in the United States. Others must be used at foreign universities. Information regarding these awards, some of which are described briefly below, can be secured by consulting Dr. Samuel J. Jasper, Honors College, Ohio University, Athens, Ohio 45701.

**DANFORTH GRADUATE FELLOWSHIPS.** Candidates must have demonstrated outstanding intellectual ability, personal integrity and a concern for values which indicate genuine potential for effective college teaching.

**WOODROW WILSON NATIONAL GRADUATE FELLOWSHIPS.** Candidates must show outstanding intellectual promise and a sincere desire to become a college teacher. Awards are made primarily for support of candidates in the humanities and social sciences.

## AWARDS FOR GRADUATE STUDY ABROAD

**FULBRIGHT SCHOLARSHIPS.** These awards, tenable in many countries, are made on the basis of academic performance, personal recommendation, and a well defined study or research program to be completed in one academic year.

**MARSHALL SCHOLARSHIPS.** These grants, tenable at any British university, are made to students demonstrating unusual potential for graduate study.

**RHODES SCHOLARSHIPS.** These scholarships for men can be used only at Oxford University, England and are awarded on the combined basis of character, scholarship, athletics, and leadership activities.

For further information regarding the above mentioned and other awards for graduate study in foreign and domestic universities, consult Dr. Samuel J. Jasper, Honors College, Ohio University, Athens, Ohio 45701.

## LOAN FUNDS

Ohio University has a number of loan funds available to which students may apply for financial assistance. Freshman and upperclass students are required to guarantee their loans by a promissory note. It is required that all students secure a co-signer for the note, preferably a parent.

A number of campus organizations provide funds from which students may borrow limited amounts to meet financial emergencies. Inquiries and applications should be directed to the Director of Student Financial Aids, Ohio University, Athens, Ohio.

### SHORT-TERM LOANS

Short-term emergency loans are available to students ranging in amounts from \$5 to \$250 for 30 to 90 day periods. In some instances, a co-signer is required.

### LONG-TERM LOANS

Certain University loan funds allow a student to borrow up to \$1,000 during each academic year, repayable after graduation. These loans have interest rates of either four to five per cent annually. Freshman and upperclass students are required to guarantee the loans by a promissory note. A co-signer, preferably a parent, is required.

### THE NATIONAL DEFENSE EDUCATION ACT LOAN FUND

The most popular loan presently available at Ohio University is the National Defense Student Loan under which an undergraduate student may borrow \$1,000 annually and a graduate student \$2,500 annually. Interest is three per cent per year and begins nine months after the student has completed full-time studies. Repayment

begins two years after a student has completed his studies, and the loan must be repaid in full 10 years and nine months after graduation.

The loans are administered on the basis of financial need, availability of funds and a minimum grade requirement of 2.0 (C).

Up to one-half of any loan plus interest is cancelled for service as a full-time teacher in a private or public elementary or secondary school or institute of higher education at the rate of 10 per cent of the amount of the loan plus interest for each complete academic year of such service.

The loan must be evidenced by a note and a co-signer is required by the Ohio University Financial Aids Committee.

Further information and applications can be obtained by writing to the Director of Student Financial Aids, Ohio University, Athens, Ohio.

## PART-TIME EMPLOYMENT

The University attempts to secure employment for those students who need financial assistance to remain in school. Placements are both on campus and off campus and consist of University board jobs, student assistants in offices and departments, and employment in community enterprises.

A limited number of jobs are available as part of the Work-Study Program Title I-C of the Economic Opportunity Act of 1964.

Applications usually far exceed the number of jobs available. Thus, part-time employment should be thoroughly investigated before considering it as a major means of financing an education.



*The University's thirty-one residence halls are all located within easy walking distance of the College Green and offer programs of social, scholastic, and student government activities.*

# GENERAL INFORMATION

## GENERAL INFORMATION

### PROFILE OF OHIO UNIVERSITY

Ohio University's heritage is closely interwoven with the heritage of the nation. Born out of the demand of Revolutionary War soldiers for Congress to pay its debts to them by issuing warrants for public lands, the University was founded in 1804 and is the oldest institution of higher learning in the Northwest Territory.

Planning for the University began in the 1780's when General Rufus Putnam led a movement to have a vast tract of land west of the Alleghenies surveyed and settled. Although the valleys beyond the mountains had intrigued traders, trappers and colonists long before the Revolution, the western wilderness was not opened for settlement until the soldiers, through General Putnam, made their demands.

A proposal to be presented to Congress for forming the new state westward of the Ohio was drawn up in 1783. Despite Putnam's work the plan was stalemated and not until 1785, when a land ordinance was drafted by Thomas Jefferson, was land granted to war veteran's holding the land warrants. The ordinance also stipulated that a section of each township be reserved for schools.

Eleven men, interested in settling the land in Ohio, met at the Bunch of Grapes Tavern in Boston in 1786 and established the Ohio Company under the leadership of General Putnam and the Reverend Manasseh Cutler. The Rev. Cutler was dispatched to New York to petition the Continental Congress to take action on the proposed settlement. The Rev. Cutler's petition was referred to the Carrington Committee which had been appointed to consider terms for western land sales. The eventual outcome was the enactment of the Northwest Ordinance of 1781 which provided for settlement, and also that "schools and the means of education shall forever be encouraged."

Indian wars delayed plans to establish the territory and a university, but in 1799 Putnam laid out the city of Athens, including land for the proposed university. A

Charter modeled after that of Yale University was prepared by the Rev. Cutler.

In 1803, Ohio became a state and on February 18, 1804, the General Assembly passed an act establishing "The Ohio University." The University opened in 1808 with one building, one professor, and three students. One of the first two graduates was Thomas Ewing, who later became a United States Senator, Secretary of the Treasury in the cabinet of William Henry Harrison, Secretary of the Interior under Zachary Taylor, and personal advisor to Abraham Lincoln and Andrew Jackson.

Within a few years the first academic building was inadequate and plans were made for a new brick structure. Cutler Hall, built in 1816 and restored in 1947, stands today as the oldest building for higher education in the Northwest Territory. The Secretary of the Interior recently named Cutler Hall a registered National Landmark.

During the early decades of its existence, Ohio University remained a small college devoted to the arts and sciences. Only 145 students were graduated from the University in its first 50 years. One of these students, John Newton Templeton of the class of 1828, is believed to be one of the first three Negroes to graduate from an American college or university. The advent of the Civil War brought Ohio University to a virtual suspension of its academic functions, although it was active during this period as a way-station in the Underground Railroad.

In 1894, the University began to receive aid in the form of tax appropriations. Greatly benefitting from this needed assistance, the University began to expand curricula, faculty and facilities. The financial situation grew still brighter from 1901 to 1920 while the faculty was being further increased. Funds received in 1920 were four times the amount received in 1900 while faculty grew from 23 members in 1901 to 74 full-time teachers two decades later.

Although the depression years were financially difficult for the University, there was no direct effect on student enrollment. The classes of 1932, 1933 and 1934 were all

record breakers. However, with the advent of World War II enrollment once again declined as young men were called to the armed services. With the arrival of 5,000 students after the war, Ohio University began to grow in size and national prominence.

With a present main campus enrollment of approximately 14,000 students and more than 5,000 students on six branch campuses, Ohio University has begun an extensive building program to meet the rapidly increasing needs of students and faculty. The program includes a 25 million dollar science-engineering campus under construction, a new seven story, six and one-half million dollar library, a seven million dollar 14,000 seat convocation center, a music building and an educational radio-television center. Construction has begun on a four residence hall and one dining hall complex adjacent to the East Green to supplement the 27 residence halls already in existence.

#### LOCATION

Ohio University, a co-educational, state-assisted university, is located in the city of Athens, which has a population of 12,000, in scenic Southeastern Ohio.

Athens is conveniently accessible by automobile on U.S. Routes 33 and 50 and State Route 56. The city is on the main Baltimore-St. Louis route of the Chesapeake and Ohio Railroad. North-south bus service is provided by the Lake Shore System and Trailways, and east-west by Greyhound. A University-owned airport, with a 3200 foot paved, lighted runway, is located one mile east of the campus on U.S. Route 50 east and is open to the public.

#### SESSIONS

University sessions consist of two 18-week semesters and a summer session of two five and one-half week terms. Sequences of courses are planned to permit students to begin degree programs in any of these sessions. The plan provides year-around study opportunities for students at both the undergraduate and graduate levels.

#### ACCREDITATION

Ohio University is accredited by the North Central Association of Colleges and Secondary Schools, and by the recognized professional accrediting associations identi-

fied with its major academic divisions. The University holds membership in the leading state and national educational and professional associations in its major areas of interest.

## FACILITIES

### UNIVERSITY LIBRARY

A collection of more than 400,000 volumes, including periodical sets, documents, and pamphlets, is housed in the Edwin Watts Chubb Library and shelved chiefly in the stacks to which all students have access. A reference collection of several thousand volumes is in the Reading Room and current issues of about 1,800 periodicals are received. Newspapers from principal cities are available.

Books reserved in courses at faculty request are shelved together. A browsing room contains books of general interest for pleasure reading while a collection of sound recordings and extensive holdings of microfilm and microcards are available.

The Children's and Young Peoples Room, a collection of books for younger readers serves the children of Athens and is used as a laboratory by students in education. Other special collections include the J. W. Morgan Collection of historical books in chemistry and other physical sciences, the University's rare book collections, and the University archives.

Fully-staffed departmental libraries are maintained for the College of Education and the College of Fine Arts, and specialized collections on a less formal basis are administered in connection with the College of Business Administration, the School of Music, and the Departments of Botany, Chemistry, Physics and Zoology.

A special map library in Porter Hall houses the great map series of the Army Map Service and the United States Geological Survey. The Jefferson Hall library serves as an undergraduate library for the East Green.

During regular sessions Chubb Library is open daily and throughout the evenings. Shorter hours are observed during vacations.

Within the next year ground will be broken for construction of a new seven story, six and one-half million dollar library on the site now occupied by Boyd Hall

and the Women's Gymnasium. A goal of 1,100,000 volumes has been set for the new library by 1971.

### **THE HELEN MAUCK GALBREATH MEMORIAL CHAPEL**

The Chapel was donated to the University by Mr. John W. Galbreath, trustee and prominent alumnus, in memory of his wife, a graduate of the class of 1919. Dedicated in 1958, the Chapel aids in serving the religious needs of all faiths and denominations.

### **UNIVERSITY MUSEUM**

The University Museum of Natural History, oldest of its kind west of the Allegheny Mountains, houses more than 8,000 specimens, including Dr. S. P. Hildreth's famous collection of rocks and minerals dated 1815 and 1825.

Many science collections have been added to the museum through the efforts of local groups, societies and individuals, including series of fossils, rocks, minerals, plants and animals.

### **UNIVERSITY GOLF COURSE**

The 18 hole University Golf Course is located on the east side of the Hocking River across from Peden Stadium and other athletic fields. The two areas are connected by a footbridge.

### **UNIVERSITY AIRPORT**

The Ohio University Airport is located approximately two miles from the campus on Route 50, east of Athens. The field has a paved runway of 3,200 feet in length, four hangars and an administration building. The hangars provide space for plane storage, a repair station, a Link Trainer room, and a pilot's ready room. The field is equipped with runway lights for night flying. Airport activity includes transportation service for faculty and staff and training for students.

### **FISCHER HOUSE**

The Fischer House, a landmark in Zaleski, is a gift of Miss Margaret Jane Fischer and serves as a faculty study retreat and conference headquarters.

### **ATHLETIC FIELDS**

The athletic fields, located across the Hocking River on the east side of Richland Avenue, include Trautwein Field, Bird

Arena, Grover Physical Education Center, the 18,000-capacity Peden Stadium, intramural fields, tennis courts, and practice fields.

### **THE JOHN CALHOUN BAKER UNIVERSITY CENTER**

The Baker University Center provides facilities for the cultural, social and recreational benefit of students. It contains three lounges, a large ballroom, dining rooms, cafeteria, snack bar, library and record listening room, television, conference rooms, student government, publications offices, and recreational areas for bowling, billiards, table tennis and cards.

Club rooms for both men and women members of the University faculty are also located in this building, as well as the Office of Public Relations, The Office of University Publications, the Alumni Office and the Ohio University Fund, Inc.

A faculty-student policy board controls the operation of the building, and an all student board directs the large and varied program provided for the benefit of the entire student body.

### **THE NATATORIUM**

The Natatorium is a modern structure conveniently located adjacent to the main campus. The pool, 42 feet by 75 feet, has six standard seven-foot racing lanes and a rated capacity of 116 persons. It is equipped with submerged lighting, olympic-style starting blocks, diving boards and safety equipment.

The building contains locker and dressing rooms, and can accommodate about 1,000 spectators. The facilities of the Natatorium are available to students for both class and recreational swimming.

### **GENERAL RECREATION**

Ohio University provides students numerous recreation facilities and programs, and the City of Athens and the surrounding areas offer facilities for both indoor and outdoor recreation.

The Division of Physical Education and Intercollegiate Athletics directs the intramural athletic program that includes competitive and physical recreational activities for men and women students. Facilities include a gymnasium for men, a natatorium, an ice skating rink, a game room and bowling alleys in Baker University Center, and extensive outdoor recreational areas.

The men's athletic fields are equipped to handle 15 softball games or 12 touch football games at one time. Women's athletic fields are available for intramural softball, field hockey, archery and soccer. Twenty-five tennis courts are used interchangeably for men's and women's programs. Outdoor areas for archery, basketball, horseshoe pitching, volleyball, and bowling on the green are also available to men and women.

Intramural activities for men include touch football, basketball, track, golf, volleyball, handball, softball, tennis, badminton, and table tennis.

Intramural sponsored activities by the Women's Recreational Association are open to all women and include field hockey, archery, tennis, bowling, basketball, softball, badminton, golf, swimming and ice skating.

The Women's Recreational Association own a cabin in the wooded hills outside of Athens that is available to groups for outings.

The Dance Club, sponsored by the women's department of the Division of Physical Education and Intercollegiate Athletics, presents an annual dance concert. The Dolphin Club, a women's aquatic group, presents an annual water show.

The Division of Physical Education and Intercollegiate Athletics directs the varsity sports program which consists of football, basketball, baseball, track, soccer, wrestling, cross-country, tennis, swimming, and golf. Ohio University is a charter member of the Mid-American Conference. Ice hockey is promoted on a club basis.

The Brandon T. Grover Physical Education Center is a \$2,000,000 physical education and athletic plant that accommodates a diversified sports and activity program for men and women. Bird Arena houses an ice skating rink, 85 feet by 180 feet, and classes in beginning and advanced skating and ice hockey are held from November to April.

Dramatic productions by the University Theatre and the University Playshop are schedule at frequent intervals for the enjoyment of students and members of the local community.

Numerous dances, both formal and informal, are held during the year. Feature movies are shown three nights weekly in Memorial Auditorium. In addition, many Athens churches have social-religious pro-

grams that are designed for large numbers of students.

A new addition to the community's recreational facilities is the Lakeview Community Center, located in the Lakeview Manor Apartments complex. The Center, which contains 16 bowling lanes, an indoor miniature golf course, and a dining room and snack bar, is owned and operated by Rumac, Inc., owner of the Lakeview Apartments.

Located near Athens are four of the state's most scenic areas—Dow Lake, east of Athens; Lake Hope, in the heart of the Zaleski State Forest; Burr Oak Lake near Glouster, Ohio, and the caves and gorges of the Hocking Park Area.

The 160-acre Dow Lake, within a 2,000 acre state park, is used extensively by the University for outdoor education, group camping, aquatics, boating, and for research projects in conservation and natural resources.

## SERVICES

### STUDENT HEALTH SERVICE

The student health service facilities, located in the Hudson Health Center, includes a complete out-patient clinic, 90-bed hospital section, and ancillary services, which include x-ray, clinical laboratory, physiotherapy, and electrocardiography.

The health service maintains a continuous health record on each student, beginning with the report of medical history and physical examination on the family physician which is required for admission to the University.

A tuberculin skin test is required of each new student and is given at the Health Center at the time of entrance to the University. All positive skin reactors receive a chest x-ray annually. Negative reactors are urged to be retested each year. This program provides a means of early detection of tuberculosis for the individual student and protection for the academic community.

The director of the health service and the director of environmental health jointly have the responsibility and the authority to exercise necessary precautions to prevent the spread of communicable diseases and to maintain proper standards of health and sanitation on the campus.

The health service staff includes seven full-time physicians, a University psychiatrist, 25 registered nurses, a director of environmental health, and university sanitarians, as well as registered laboratory and x-ray personnel.

Student health services include:

**OUT-PATIENT SERVICES:** The clinic is open from 8:00 a.m. to 4:00 p.m. Monday through Friday and on Saturdays from 10:00 a.m. to 12:00 noon. The clinic is closed on Sundays and holidays. Patients are also seen in the clinic from 4:00 p.m. to 5:00 p.m. for emergency conditions.

**HOSPITAL SERVICES** The hospital section is operated at all times. All routine in-patient hospital care is available to students.

**EMERGENCY SERVICE:** Registered nurses are on duty at all times in the emergency room of the hospital section when the clinic is closed. A University physician is also on call and available to care for emergencies. Admission to the emergency room is gained by ambulatory patients at the west entrance to the Health Center and for all other patients via the ambulance entrance at the east end of the building. This is an emergency service and is not intended to be an extension of the regular clinic service.

University physicians do not make outside calls. The accessibility of the Health Center to all areas of the campus obviates this need and increases the availability of necessary services.

**CONSULTATIONS:** Specialists in all fields of medicine are available when needed through health service referrals. The cost of consultation services is paid by the health service when such consultation is requested by a University physician.

The cost of corrective optical lenses and routine dental care is the responsibility of the individual student. The health service will assume reasonable costs for care necessitated by injury to live teeth and will pay up to a maximum of \$350 for medical, surgical, and hospital services which are not available at the student health center and are incident to injuries and illnesses occurring in Athens. Health service physicians will refer such cases when medically indicated and authorization for payment is a part of such a referral.

**DIAGNOSTIC EXAMINATIONS—MEDICATIONS**

—**TREATMENTS:** The health center is equipped to provide routine laboratory, x-ray, and associated diagnostic procedures.

The physiotherapy department offers a wide variety of treatments. Medications are dispensed without charge except for minimal fees assessed for drugs that are required for extended periods of time or those which are so infrequently used as to not be stocked in the health center pharmacy. Staff physicians request all necessary diagnostic procedures and order indicated treatments and medications in each case.

#### **ABSENCE CERTIFICATES**

Official certificates for class absence due to illness are issued by the health service only for students who have been hospitalized in the health center.

#### **VACCINATION AND IMMUNIZATION**

All new students, whether freshmen or transfers, must present evidence of vaccination against smallpox within the past three years and proper immunization against tetanus within the past five years, before being admitted to Ohio University. Medical forms including detailed instructions for the submission of medical history, physical examination, and evidence of proper immunization and vaccination are sent to each applicant for admission and must be returned to the Hudson Health Center, properly completed prior to final admission to the University is granted.

#### **MAJOR MEDICAL INSURANCE PLAN**

A major medical insurance plan, specifically designed to supplement the care provided by the student health service, is mandatory to every full-time student at an annual premium of \$16, unless the student submits evidence that he is covered by a comparable private insurance plan. This plan fulfills a major need when dependent family insurance protection is automatically lost because a student attains the age of termination of dependent coverage. In addition, it provides protection against major medical and surgical expenses and is effective for one year, not only while in Athens, but at all times wherever the student may be. In addition to the medical and surgical benefits payable under the terms of the group plan contract, an accidental death payment is a provision of the policy.

#### **PROLONGED ABSENCE FROM THE UNIVERSITY**

Students, who resume their studies at Ohio University after an absence of two years will be required to submit the stand-

ard history and physical examination form as required for all new students entering the University.

## COUNSELING

### EDUCATIONAL COUNSELING

Each student is assigned to a faculty counselor who is primarily concerned with the educational guidance of the student throughout his freshman year. The counselor assists with the selection of courses and follows the progress of each student in his studies. Because the faculty counselor is selected from the student's major field of interest, many students choose to continue with the same adviser for four years. In the degree college the student is assigned to or selects his advisor on the basis of his field of specialization or concentration. Students are encouraged to consult freely with faculty advisers.

### GENERAL COUNSELING

General counseling is a special concern of the Dean of Students and members of his staff. Their offices are located in McGuffey Hall. Through student activities and organizations and the residence hall program these persons are in close touch with student life. Problems as a normal part of educational development are often personal in nature, as, for example, meeting financial needs, getting along with people, and making vocational choices. The offices of the Dean of Men and Dean of Women provide students with resources for helping themselves when confronted with perplexities beyond their own immediate resources. They work closely with all other counseling services in the University which are concerned with the welfare of students.

### PERSONAL ADJUSTMENT COUNSELING

The Center for Psychological Services maintains a staff of professional counselors to assist students whose effectiveness and adjustment are hampered by personal concerns. Psychological tests are often administered to such persons for the purpose of adding to the counselor's understanding of the individual and his problems. These services are completely confidential. Students interested in receiving such help are encouraged to report to the McKee House, 44 University Terrace, directly across from Ellis Hall.

The center works to improve the quality of its counseling through a program of continuous research. A portion of this effort is carried out in cooperation with other institutions of higher learning. The facilities of the center are also utilized for the training of advanced graduate students in clinical psychology. Such individuals are closely supervised by the staff of the center.

### GUIDANCE TRAINING LABORATORY

The Guidance Training Laboratory provides special guidance services for students enrolled in the College of Education, and others who wish assistance with problems of vocational and educational choice. Students are accepted who volunteer or who are referred by staff. Counseling and testing is provided by graduate students under supervision and by professional staff of the Department of Guidance Counseling and Student Personnel of the College of Education. Referral arrangements are maintained with other counseling services of the University. Students wishing to use the services of the laboratory should make appointments by reporting to Room 346, McCracken Hall.

## CENTER FOR COMMUNICATION STUDIES

The Center for Communication Studies is a multi-disciplinary approach coordinating the research and service functions of several communication-related areas. The center, which includes Communication for Organizations, Persuasion and Propaganda, Listening Laboratory, General Semantics and Conference Leadership and Group Discussion, provides service and conducts research for organizations in the tri-state areas as well as for campus organizations.

### PERSUASION AND PROPAGANDA LABORATORY

The Persuasion and Propaganda Laboratory of the Ohio University Center for Communication Studies is concerned with behavioral science research. Its purpose is to investigate attitude change through communication and to develop improved research techniques. Its facilities are available to any student or organization interested in how communication affects society. The general emphasis is on propaganda, but not exclusively so. Some of the specific topics of interest include: changing attitudes, selling, political persuasion, speech writing and message analysis.

## **GROUP DISCUSSION AND CONFERENCE LEADERSHIP**

Group Discussion and Conference Leadership involve the group process as it relates to discussion and conference work. Analysis is made of creative thinking, group dynamics, and the components of the effective conference. Actual practice in problem solving through group discussion and conference leadership is provided along with the use of the base method, role playing, brainstorming, and the problem solving conference.

## **GENERAL SEMANTICS**

General Semantics, the study of language as it affects human behavior, includes the investigation of perception and experience as they are structured by language. The emphasis is on studying how language affects one's behavior. The application of General Semantics to areas of business, industry, education, and inter- and intra-personal communication is available through the Center for Communication Studies.

## **LISTENING LABORATORY**

The Recording and Listening Laboratory provides a versatile facility for students, faculty, and the community. Students in speech classes are given regular opportunities to record performances and have free access to the laboratory for listening to their recordings and for practice sessions. Taped speeches and readings by competent and talented performers provide models, which assist students in the development of their own skills.

As a wider variety of taped teaching programs become available, the laboratory will provide another type of "programmed" learning resource and when such programs are developed by university personnel the laboratory may be used as a testing research facility.

## **SPEECH AND HEARING SERVICES**

The Speech and Hearing Clinic offers diagnostic and remedial services without charge to students with hearing, voice, and/or articulation problems. Clinical services are also available for a small charge for adults and children in the community. The Audiological Center is equipped to provide complete hearing test services, to

give auditory training, and to fit and evaluate hearing aids.

A program for language and speech development has been initiated in the County School for Trainable Retarded Children. The clinic also serves as a training laboratory for students preparing for positions in research, teaching, or clinical practice in hospitals, private clinics, public schools and colleges and universities. Students wishing counseling or training should inquire at the Speech and Hearing Center in the School of Dramatic Art and Speech for further information.

## **VETERANS AND ORPHANS OF VETERANS**

Veterans who enter Ohio University should report to the Office of the Coordinator of Veterans Affairs, Ewing Hall. Students who expect to be enrolled under Public Law 634 (orphans of veterans) should also report to the Veterans Office upon arrival on campus.

## **PLACEMENT SERVICE**

The Placement Service, located in Berry Hall, offers assistance to students, former students and graduates of the University to secure positions in business and industry.

A registration fee of \$2 entitles an applicant to this service while enrolled as a student and for one year after graduation. After the one year period, an additional charge of \$2 a year is made for each year in which assistance is requested.

The service maintains and promotes all possible connections with prospective employers for the benefit of persons seeking initial placement and for those looking toward advancement to better positions.

## **FOREIGN STUDENTS**

Information concerning the admission of students from foreign countries may be obtained from the Director of Admissions, Ohio University. An Adviser to Foreign Students, located in McGuffey Hall, is available to help solve problems of foreign students.

## **INTERNSHIP OFFICE**

The Internship Program, an integral part of the Placement Service, helps place students in summer jobs which will provide

them with experience toward long-range vocational objectives. The office has information available on the procuring of summer positions for students in business, government, hospitals, social agencies and public relations.

The office will provide information, in conjunction with the Foreign Student Adviser, on opportunities to work and study abroad. Information is also available on graduate fellowships, scholarships, and loans. The office is located on the first floor of Berry Hall.

## CULTURAL OPPORTUNITIES

Ohio University annually brings to the campus many distinguished persons for limited engagements and invites guest artists to perform, lecture, and counsel informally with interested students.

The University sponsored Artists Series and Chamber Music Series brings to the campus internationally famous instrumentalists and vocalists, symphony orchestras, opera and ballet companies and chamber music groups. These concerts are presented without charge to the student body.

The Edwin and Ruth Kennedy Lecture Series, designed to stimulate greater interest and involvement in the major issues facing our nation and the world, presents distinguished scholars and public figures in American life. Speakers have included William O. Douglas, Margaret Mead, Adolph A. Berle, Arnold Toynbee and John Ciardi. The annual Lecture Series is sponsored by a generous gift of the Kennedys, alumni of Ohio University.

The Herman G. James Lecture on Municipal Government, endowed by Mrs. George E. Frazer, sister of the late president of Ohio University, brings to the campus each year a leading authority in the field of municipal affairs.

The Faculty Lecture Series provides the campus and community an opportunity to benefit from the scholarly work of outstanding faculty members.

The College of Fine Arts plans many events of a cultural nature each year. In addition to the numerous concerts and plays presented by the students and faculties of the School of Dramatic Art and Speech and

the School of Music, the two schools cooperate in campus-wide productions of outstanding musicals.

For over two decades the School of Painting and Allied Arts has sponsored the Ohio Valley Oil and Water Color Show, a competition open to artists of Ohio, West Virginia, Kentucky, Indiana, Illinois and Pennsylvania. The University is building a permanent collection of paintings, many of which are purchased from this show.

The School of Painting and Allied Arts and the School of Architecture maintain an art gallery in the Space Arts Building in which a program of exhibitions is conducted throughout the year. Other exhibitions are scheduled from time to time in the John C. Baker University Center.

Since 1960, the School of Painting and Allied Arts has sponsored, with the Wesley and Westminster Foundations, a national print and drawing exhibition, "Ultimate Concerns." This exhibition, held during the month of March, displays professional work submitted from every state in the union. Works purchased from this show are added to the University's permanent collection.

The Ohio Valley Summer Theatre, sponsored by the School of Dramatic Art and Speech, produces annually a series of six outstanding plays during the summer months. The University leases the Monomoy Theatre in Chatham, Massachusetts, on Cape Cod, and operates it as a summer theatre for a ten-week season of eight plays.

## THE OHIO PLAN

The Ohio Plan is a new, experimental four-year program for undergraduate men and women of superior ability, idealism and potential for leadership. The plan seeks to develop that range of attitudes, interests, motives and abilities which enables one to respond with excellence to opportunities for service in public affairs.

A specially designed supplemental curriculum, coordinated with regular University requirements, includes seminars in the elements and problems of goal-setting and decision-making, field research, two eight-week internships, and informal visits with distinguished people who have made significant contributions in public affairs.

All first and second year undergraduate

students are eligible to apply for inclusion in the program. Selection of final candidates is based on an assessment of each student's overall performance in high school and the University, as well as an evaluation of motivation and maturity of purpose, and

the compatibility of the program goals with the individual's own career plans.

No pre-established grade point average is required. Students interested in participating are invited to apply directly to Professor John Chandler, 209 Tupper Hall.



*The new West Green campus, an 11-residence hall complex located across from the athletic facilities, houses more than 3000 students. Within easy walking distance of the College Green, the West Green is one of three areas where residence halls are located. All University residence halls are modern, fire-proof structures, attractively and comfortably furnished.*

# UNIVERSITY REGULATIONS

# UNIVERSITY REGULATIONS

## REGISTRATION

Details concerning the registration procedure are given in the schedule of classes which may be obtained at the office of the Registrar before each registration.

### PERMITS TO REGISTER

A student enrolled in the University completes registration for a subsequent session in accordance with regulations announced by the Registrar.

A former student obtains registration information by calling at the office of the Registrar or by making his request by mail about a month before the opening of the session he wishes to attend.

A new student receives registration information by mail with other admission material.

### STUDENT LOAD

A full-time student normally carries a minimum of 15 semester hours. A student on warning or probation carries a maximum of 14 hours. A student must obtain approval from the dean of his college to carry less than the minimum prescribed by his college or more than 17 semester hours (19 if registered for an engineering degree), or more than 14 if on warning or probation. Specific regulations are given in the respective college sections of the catalog.

### AUDITING PRIVILEGE

A student may receive permission to audit courses from his adviser. The courses must be marked "audit" on the schedule and registration cards. The fee for auditing is the same as for credit. Changes from audit to credit or from credit to audit are made by change order during the period when changes are permitted.

### CLASSIFICATION OF STUDENTS

A student who has been regularly admitted to the University and who expects to pursue a degree course is given rank according to the number of semester hours completed: freshman, 0-24; sophomore, 25-54; junior, 55-86; and senior, 87 and over.

All other students are unclassified. An unclassified student who has completed 24 or fewer semester hours enrolls as a special student in the University College; if he has

completed 25 or more semester hours, he registers in the degree college of his choice as a special student. An unclassified student continues to enroll as a special student until he has made up high school credit deficiencies or is regularly admitted to a degree course.

A student who has earned a degree and desires to register for undergraduate courses without pursuing another degree enrolls as a special student in the degree college from which he was graduated; however, a student who wishes to enroll for a special interest subject only may register in the college offering the course.

A student who has been admitted to the Graduate College enrolls as a special student when he does not wish to pursue a program leading to a degree.

### CHANGE ORDERS

A student who finds it necessary to add a course, withdraw from a course, or correct his registration, requests a change order in the office of the dean of the college in which enrolled. The order does not go into effect until it has been presented to and accepted by the office of the Registrar.

A course may not be added after the close of the third week of a semester.

When a student withdraws from a course by change order his grade is recorded W, and the instructor removes him from the class roll on receipt of a notice from the Registrar.

A course cannot be dropped by change order by a student in a degree college after the third week, and by a student in the University College after the close of the eighth week of the semester; or in the case of a course that has a late starting date, one week after the starting date.

The following procedure is authorized for making a change:

The student secures a change order form in the dean's office and then consults the designated departmental representative or the instructor of each course being dropped or added. If the departmental representative or the instructor approves the change, he then signs the change order form.

If the change is not approved, the reason may be indicated on the change order form or in a separate communication to the dean.

The change order form is returned for approval to the dean of the college in which the student is enrolled. After securing the dean's approval, the student deposits the change order form in the office of the Registrar and pays the change order fee of \$2 if it was assessed by the dean.

Changes correcting mechanical errors in registration during the first week of classes may be approved by the dean of the college following approval of the departmental representative.

The dates marking the close of each period mentioned are shown in the calendar.

#### CHANGE OF ADDRESS

A student is responsible for a University office communication sent to him at the last address reported to the office of the Registrar. Forms for reporting a change of home or Athens address are available in the Registrar's office.

#### CHANGE OF COLLEGE

Application for transfer from one degree college to another is made in the office of the dean of the college in which the student is enrolled and should be made before registration. The change goes into effect when the application, signed by the two deans concerned, has been presented to the Registrar and the transfer fee of \$2 has been paid. A student is required to fulfill all the requirements of the degree and the college to which he transfers. The change must be completed within two weeks after the opening of a session or the student remains in the college in which he was registered until the next session.

#### WITHDRAWAL FROM THE UNIVERSITY

Application for withdrawal is made on a withdrawal form obtained in the office of the dean of the college in which the student is enrolled. When the request for the withdrawal has been approved by the dean of the college, the order is referred to the Registrar who grants an official withdrawal after it has been determined that all obligations to the University have been met. A refund of registration fees is made according to regulations under "fees."

"W" is recorded for a University College student who is granted a withdrawal from the University during the first eight weeks of a semester, and for a degree college

student during the first three weeks; and on receipt of notice from the Registrar, the instructor removes the name from the class roll. The weeks are counted from the date marking the opening of the semester.

When a University College or degree college student is granted a withdrawal from the University following the close of the eighth or third week of a semester, respectively, his grade in each course is recorded "WP" if he is passing or "WF" if failing at the time of withdrawal. Hours of "WP" are not included in total hours attempted; hours of "WF" are included. "WP" and "WF" appear on the transcript of record.

A student who leaves the University without obtaining an official withdrawal is not permitted a refund of fees and is given the grade F in all courses. The University reserves the right to ask a student to withdraw at any time when it considers such action to be in its best interest.

#### CREDIT

All credit is designated in semester hours. A semester hour is the equivalent of one recitation or two or more laboratory periods a week throughout a semester. In order to receive credit, students are required to take final examinations. The final examinations are held during the last week of a session and all students are required to take the examinations according to the schedule issued by the Registrar.

The final examination for honors work must be taken before the opening of the regular examination period. For information concerning honors work, refer to "Honors Work Program."

#### MOTOR VEHICLES

University policy and regulations require that all motor vehicles operated by students in Athens, including student-owned automobiles, automobiles belonging to parents or relatives, motorcycles and scooters, must be registered with the University. This registration includes permanent town residents, married and graduate students and commuters. The registration fee will be paid for the first semester during registration week and will register the vehicle for the entire academic year.

Upon registration and payment of the fee, each student will be given a windshield decal which must be attached to the lower

righthand corner of the windshield in accordance with state law.

If a car is brought to the campus after registration week it must be registered within twenty-four hours at the office of the Director of Security.

Failure to register a motor vehicle will result in a fine. In addition, the student will be required to pay the registration fee and he may be denied his driving privileges.

## SCHOLARSHIP

### THE GRADING SYSTEM

At the close of a session or upon the completion of a course an instructor reports a letter grade indicating the quality of a student's work in the course. Points are assigned for each semester hour of credit earned, according to the following grading system:

Letter Grade	Explanation	Points Per Semester Hour
A	Very high	4
B	High	3
C	Average	2
D	Passing but low	1
F	Failure	0*
I	Incomplete	0*
W	Withdrawn	-**
WP	Withdrawn Passing	-**
WF	Withdrawn Failing	0*
Cr. #	Credit without grade	-**

\* Hours are included in total hours attempted.

\*\* Hours are not included in total hours attempted.

# Used at Ohio University for certain specified courses.

### THE POINT-HOUR RATIO

The basis for determining scholastic standing is the point-hour ratio. It is obtained by dividing the total number of points earned by the total number of semester hours undertaken, excluding courses in which the marks "W," "WP," or "Cr." are recorded (those with \*\* in the table).

"W" is recorded for a University College student who is granted a withdrawal from a course or from the University during the first eight weeks of a semester, and for a degree college student during the first three weeks. University College students may not withdraw from a course after the close of the eighth week, and degree college stu-

dents after the third week. The weeks are counted from the date marking the opening of the semester.

When a University College or degree college student is granted a withdrawal from the University following the close of the eighth or third week of a semester, respectively, his grade in each course is recorded "WP" if he is passing or "WF" if failing at the time of withdrawal. Hours of "WP" are not included in total hours attempted; hours of "WF" are. "WP" and "WF" appear on the transcript of record.

Unofficial withdrawals result in "F" grades.

"I" is given to a student who, in a course in which he is doing passing work, has a relatively small part of the session's work not completed because of illness or other reason beyond his control as verified by the Dean of Men or the Dean of Women, or for some reason acceptable to the dean of the college in which he is enrolled. Two methods are available to the student for removing an "I" grade from his record: by arranging with the instructor to complete the work of the course within six weeks after the opening of the next semester he is in residence, or by re-registering for the course and completing it with a passing grade. An extension of time for the removal of an "I" may be made by the dean of the college.

### POINT-HOUR RATIO

(Scholastic Average)

Except for hours of "W," "WP," and "Cr.," the entire record including each grade in each course attempted, is used to determine probation status, eligibility for honors, and class ranking, and for all purposes where a cumulative point-hour ratio is requested.

### MINIMUM STANDARD FOR GRADUATION

To meet the minimum standard for graduation from Ohio University, a student must have a point-hour ratio of 2.0 (C) on all hours attempted, but including only the final hours and points in repeated courses. This applies to his total record, and to his major or equivalent as determined by his college. For a student with transferred credit, this rule applies to both his cumulative record, which includes transferred credits, and to his Ohio University record exclusive of transferred credits.

## REPEATING A COURSE

When a course is repeated, the last grade becomes the grade in that course for graduation purposes. Previous grades in repeated courses continue to be used to determine the cumulative point-hour ratio. A course may not be repeated after an advanced course in the same field has been passed. A course passed may not be repeated in the semester in which the student is a candidate for graduation.

## GRADE REPORTS

### STUDENTS IN THE UNIVERSITY COLLEGE

At the end of the seventh and thirteenth weeks, grades for University College students are reported to the Registrar. The grades are available to the student through his counselor. The Dean of the University College sends a notice of warning at the close of the seventh week to the student who has a point-hour ratio below 1.6. At the close of the 13th week, a similar point-hour ratio results in a notice of warning being sent to the student and his parents.

A student who is on probation will have a notice of warning sent to his parents both at the seven and 13th week grading periods if his point-hour ratio is below 2.0.

A final grade report is mailed to each student at his Athens address immediately after the close of the first semester, and to his home address after the close of other sessions.

### STUDENTS IN DEGREE COLLEGES

At mid-semester instructors report to the student his standing in class. If at the end of a session a degree college student's cumulative point-hour ratio falls below 2.0 (C) but not low enough to place him on probation, a notice is sent to the student and to his parents by the dean of his college.

A final grade report is mailed to each student immediately after the close of a session.

### HONORS

(See Honors College)

### PROBATION REGULATIONS

Each student's record is reviewed at the close of each session. If a student's cumulative record shows a grade-point deficiency, he is subject to being placed on probation

or dropped from the University. The point-hour ratio is obtained by dividing the total number of grade points earned by the total hours attempted. The entire record, including each grade in each course attempted, is used to determine probation status. In determining points each hour of A equals 4, B equals 3, C equals 2, D equals 1, and F and WF equal 0. Hours of Cr. and WP are excluded in the computation.

The extent to which a student's record is below a point-hour ratio of 2.0 (C) determines whether he will be dropped, placed on probation, or continued on probation. His deficiency is determined by multiplying the total number of hours attempted by two and subtracting from this all points earned. For example, if a student has attempted 40 hours and has earned 65 points his deficiency is 15:  $40 \times 2.0$  (the point-hour ratio required for graduation) equals 80; 80 minus 65 points earned equals 15.

### DROPPED FROM THE UNIVERSITY

Any student whose grade-point deficiency at the close of a session exceeds the number of hours attempted will be dropped from the University. A student may be dropped even though he has not previously been on probation. A student on probation is dropped from the University if his point-grade deficiency has increased and he is not eligible to be removed from probation.

Normally, a petition for reinstatement will not be considered until 12 months after the student was dropped. For an on-warning student this period is 24 months. The student presents the petition to the dean of his college. Only extraordinary circumstances will prompt the Committee to consider a petition for second reinstatement, and then not until 24 months after the student was dropped.

A student who is dropped from the University may not enroll for courses on the Athens campus, in a Branch Campus or in correspondence or extension courses conducted by Ohio University until reinstated.

### PROBATION

A student who has attempted fewer than 30 hours is placed on probation when his grade-point deficiency is greater than 40 per cent of the number of hours attempted. A student who has attempted 30 hours or more is placed on probation when his grade-point deficiency is greater than 12 grade points. Normally a student on proba-

tion is limited to a maximum load of 14 hours.

#### **PROBATION REMOVED**

Probation is removed if a student on probation has attempted a total of fewer than 30 hours and his grade-point deficiency is not greater than 40 per cent of the total hours attempted. Probation is also removed if a student on probation has attempted 30 hours or more and his grade-point deficiency is not greater than 12 grade points.

#### **PROBATION CONTINUED**

A student who has been on probation for one session may be continued on probation for one additional session if his grade-point deficiency has not increased and he is not eligible to be removed from probation. However, at the close of this additional session he must be eligible to be removed from probation or he will be dropped from the University.

#### **TRANSCRIPTS**

A photograph of a student's record is issued by the office of the Registrar as an official transcript. Transcripts are made only upon request. Each student is entitled to one free copy. An additional copy of the transcript costs \$1. For a group request of from five to 10 copies the fee is \$5; up to 20 copies, \$10. The transcript carries a statement of good standing except when a student has been dropped from the University because of poor scholarship, non-payment of fees, or unsatisfactory conduct. A student on scholastic probation has his status indicated on his transcript.

## **CLASS ATTENDANCE AND ABSENCES**

A student is expected to attend all scheduled meetings of his classes and all examinations. The instructor will state his policy regarding absences at the first class meeting.

An official notification of absence, enabling the student to make up work missed, stating the reason for absence will be issued to the student provided:

1. The student has been confined as a patient in the Health Center. (Issued by the Health Center.)
2. The student has participated in an authorized University activity such as:

departmental field trip, musical and debate activities, ROTC function, varsity athletic trip. (Issued by the Office of the Dean of Women or Dean of Men.)

3. The student has participated in some special event approved by the Executive Committee. (Issued by the Office of the Dean of Women or Dean of Men.)
4. The student must return home because of a death in the immediate family. (Issued by the Office of the Dean of Women or Dean of Men.)

These are the only reasons for which an official University notification will be issued. Other reasons for absence may be confirmed by written statements from other sources. All statements concerning reasons for absence must be presented to the instructor immediately upon the student's return to class.

The student is responsible for all class work and must make arrangements with the instructor to meet the requirements for making up work as prescribed by the instructor.

If a student feels that the instructor's decision regarding make-up or penalty for absence is unfair, he should first discuss the problem with his instructor. Only after discussion with the departmental chairman should he make an appeal to his academic dean.

#### **INSTRUCTOR'S ATTENDANCE REPORTS**

Instructors will submit absence reports to the Dean of Men or the Dean of Women for students who are frequently tardy, frequently absent on any one day of the week, absent from so many meetings that academic work is affected, or absent from all meetings of a class for one week. This will enable the Dean of Men and Women and the dean of the student's college to follow up irregular and excessive absences because it is often the first indication that a student is in trouble outside the classroom. A student may be dropped from the University because of excessive absences.

#### **CLASS PROBATION AND PENALTIES**

At the discretion of the instructor a student may be placed on class probation for excessive absences. The instructor notifies the student and, the Dean of Men or Dean of Women, who in turn notify the parents, the registrar, the dean of the student's

college, the student, and the instructor who made the request. After being placed on probation an additional unauthorized absence will result in the student receiving an "F" grade in the course. This "F" is reported to Registrar immediately with the reason indicated on the class card.

#### ABSENCES BEFORE AND AFTER VACATIONS

Each instructor will report to the appropriate personnel dean all absences from class on the two days preceding and following official vacation periods for the assignment of penalty absences. A penalty of one semester hour is added to the requirements for graduation for an absence from the student's last scheduled class preceding a vacation and his first scheduled class period following a vacation. If a student is absent from all periods on the day immediately preceding a vacation and his last class period on the second day preceding a vacation, he is penalized two semester hours. The same penalty applies to the two days immediately following an official vacation. A total of four semester hours may be added to an individual's graduation requirements for absences incurred at any one holiday period.

#### SPECIAL REQUESTS

If unusual circumstances not covered by these regulations make it necessary for a student to request absence he should consult the dean of his college who will then confer with the instructors concerned. Executive Committee action may be required at the discretion of the deans involved.

## GRADUATION

#### APPLICATION

A candidate for graduation must make application in the office of the Registrar and pay the application fee not later than the date given in the university calendar for the session in which he plans to graduate. The application fee for a baccalaureate or graduate degree is \$15; for the Associate in Arts degree, \$7.50. Application for graduation made after the time designated adds a penalty of \$5.

If an applicant fails to meet the requirements for graduation, he may reapply for the session in which he plans to complete

the requirements. The reapplication fee \$5. The penalty fee of \$5 is added for late reapplication.

#### SCHOLASTIC AVERAGE

To meet the minimum standard for graduation from Ohio University, a student must have a point-hour ratio of 2.0 (C) on all hours attempted, but including only the final hours and points in repeated courses. This applies to his total record, and to his major or equivalent as determined by his college. For a student with transferred credit, this rule applies to both his cumulative record, which includes transferred credits, and to his Ohio University record exclusive of transferred credits.

The minimum number of semester hours required is increased by the number of hours received as a penalty for excess absences before or after a holiday or vacation, by the number of hours of repeated subjects, and by the number of hours in courses not allowed toward a degree by catalog designation or by the dean of the college, and may be increased by the number of semester hours earned in physical activity courses.

A student who fails to graduate because of a grade-point deficiency may take, with approval of his dean, up to a maximum of six semester hours of courses in correspondence, extension, or a branch campus of Ohio University to make up his deficiency. Courses may not be taken at another college to make up this deficiency.

#### MAJOR AREAS OF STUDY

Requirements for majors and fields of concentration are outlined by the individual colleges. A transfer student whose transcript shows the completion of most or of all the courses in a major area of study may be required by the dean of his college to satisfy the departments concerned that he has met Ohio University's standards in that area before it is recognized for purposes of graduation.

#### PROFICIENCY IN ENGLISH

A degree student who failed to make a grade of A or B in English 4, 7, or 293 is required to take the English Proficiency Test the first time it is given after his academic record shows a total of 45 semester hours of credit toward graduation, provided he is not at that time enrolled in a composition course.

A student who transfers to Ohio University in his junior or senior year takes the English Proficiency Test during his first semester in residence, and one who transfers in his sophomore year takes the test after his record shows a total of 45 semester hours of credit hours toward graduation, regardless of the grade he received in freshman English in another school.

A transfer student who must take English 3 at Ohio University to complete his freshman composition requirements may be excused from the Proficiency Test if his grade is A or B. Students exempted from, and given credit for, English 3 and 4 through the advanced placement program are exempt from the test, as are students who qualify to substitute six hours of 100 level courses for English Composition.

The Proficiency Test is offered three times each semester and once each summer term. Dates are shown in the calendar. The student must assume the responsibility of registering for the test when he becomes eligible. The test consists of a few paragraphs of prose, written on a subject chosen by the student from a list given to him during testing. The papers are later marked passed or failed on the basis of the general adequacy and acceptability of the English they exhibit.

#### **PHYSICAL EDUCATION**

Male students have a requirement of two semester hours credit in service courses, normally completed in the freshman year. This may be reduced by passing physical proficiency and sports tests which are offered upon request.

After completing one semester with credit the student may elect to try proficiency tests or to continue to register for additional credit. Having passed testing standards prescribed by the Division of Physical Education and Intercollegiate Athletics, the student is excused from further requirements.

Men classified as veterans of the armed forces are not held to the one-semester rule and, therefore, may take proficiency tests on entrance to the University.

Women students are required to complete two semester hours credit in service courses.

Men and women may elect additional semesters in physical education service courses and, subject to exceptions listed by the colleges, apply four hours of this credit

toward degree requirements. Students who elect beyond four hours must register as auditors.

See "Service Courses" in "Courses of Instruction" for additional regulations governing service course credit toward the degree requirement.

#### **EXEMPTIONS, EXCUSES, DEFERMENTS**

Exemption from the physical education requirement is made automatically for a graduate student, for a student who is 30 years of age, or over, or for a veteran who is 25 years of age or over, provided he has completed the requirements up to and including the semester in which he attained the required age.

An excuse from the physical education requirement is granted to a permanently disabled student by the Director of Physical Education upon the recommendation of the Director of the Health Center.

Deferment—postponement for one semester—is authorized by the Director of Physical Education upon the recommendation of the Dean of Men or the Dean of Women for a student who has an excessive load in connection with part-time work or by the student's academic dean in cases of serious scheduling conflicts. Any student who is granted a deferment in physical education courses must complete before graduation the requirement he otherwise would have had to meet without deferment.

#### **RESERVE OFFICERS' TRAINING**

Both the Air Force and Army offer a four-year and a two-year program of ROTC education. Both programs lead to a commission as a Second Lieutenant in the respective services. ROTC does not increase the total semester hours required for most degrees, provided the student effectively utilizes his social science electives for this credit. For details see college sections and Reserve Officers' Training section.

#### **RESIDENCE**

The minimum requirement for students who complete fewer than 45 semester hours at Ohio University is the final year (two semesters) or sessions that total 25 weeks with 30 hours of credit. The requirement for those who complete 45 or more semester hours is the final semester (15 weeks) or equivalent in sessions with 15 hours of credit.

The requirement for Branch Campus stu-

dents includes a minimum campus residence of 15 weeks with 15 hours credit. Enrollment for student teaching in the Branch Campuses gives credit toward campus residence. This may be completed at any time, and need not be the final weeks prior to receiving the degree.

The residence requirements also apply to the Associate in Arts degree, except that Branch Campus students may complete all requirements for this degree in the Branch Campus.

Part-time students earn residence equivalent to the number of hours they complete.

Credit earned in off-campus extension classes and correspondence study does not count toward fulfillment of the residence requirement.

An exception to the final semester or final year of residence may be made in the case of a student who has otherwise met the minimum residence and scholastic requirements and who has completed all but six semester hours, or fewer, required for a degree. When this occurs, a student may complete the final semester hours, six or fewer, at another institution, or by extension, correspondence, or Branch Campus study at Ohio University.

If a student begins graduate study before he completes all requirements for a bachelor's degree, residence for the bachelor's degree will be reduced by as many weeks as credit hours of graduate work completed. The number of weeks subtracted will be credited toward the residence requirement for a master's degree if the credit is acceptable in the program approved for graduate work toward a degree. Residence used for meeting requirements for one or more bachelor's degrees may not be used for meeting the residence requirements for a master's degree.

The residence regulations apply to a student who has been approved for graduation in absentia and is completing his last year in an accredited professional school, except that the regulations apply to his residence before he leaves the University to attend the professional school.

#### IN ABSENTIA

In absentia permission is obtained in writing from the dean of the college in which the student is enrolled. Application for graduation in absentia is made by a student in the office of the Registrar before he leaves the campus. To obtain his bache-

lor's degree a student who has been approved for the senior-in-absentia privilege in an approved professional school must have completed a full year's work of the quality prescribed for the bachelor's degree at Ohio University, and be eligible for advancement without condition to the second year. The official transcript from the school, and the statement from the dean of the school certifying that he has satisfactorily completed the full year's work and is eligible for advancement without condition to the second year, must be submitted to the Office of Admissions, Ohio University, two weeks before the commencement date, or a notice of the last date it will be received prior to commencement must be sent.

A student graduating in absentia is excused from attending commencement exercises.

#### TIME LIMIT

The time limit for fulfilling the published requirements for a degree is five years from the date of first registration in the University. Requirements instituted subsequent to the student's initial registration are applicable at the discretion of the University. The following additional regulations apply.

1. A student who is advanced to a degree college at the end of his first year, and who does not change his major or equivalent, fulfills the requirements in effect at the time he first registered in the University.
2. A student who is retained in the University College for more than one year fulfills the requirements in effect at the time he enters the degree college. If he changes his major or equivalent he fulfills the requirements in effect at the time he makes the change.

A transfer student is governed by the same regulations, except that the number of years in which to complete the degree requirements is reduced by the number of years of transferred work.

#### GRADUATION WITH HONORS

(See Honors College.)

#### HONORS WORK PROGRAM

(See Honors College.)

#### COMMENCEMENT

Degrees are granted at commencement exercises held at the close of each semester and the second summer term. Attendance

at graduation exercises in academic costume is required. Students granted permission to graduate in absentia are excused from attendance. Other candidates, due to unusual circumstances, may need to request absence. Application for excuse is made with the dean of the college. The application form which is filed with the Registrar includes instructions for the mailing of the diploma and carries a diploma handling charge of \$2.

#### A SECOND BACHELOR'S DEGREE

A student who desires two bachelor's degrees may meet the requirements for them either simultaneously or successively:

(a) If a student desires to complete the requirements for the two degrees simultaneously and have the degrees conferred on the same date, he must meet the particular subject requirements for both degrees; earn a minimum of 154 semester hours approved for the degrees (160 for two engineering degrees) with the requisite scholastic average, both on Ohio University work and on the total record when credit has been transferred from another school; and must have completed a total of nine semesters of college work or its equivalent, with a minimum of three semesters of resi-

dence, or the equivalent, at Ohio University. When the two degrees are offered by different colleges, the student must register in both colleges the session in which the degrees are to be conferred.

(b) If a student has met the requirements for two degrees as indicated above and desires to have the degrees conferred in successive semesters, he may do so without further credit or residence. He may, for example, have one degree conferred at the end of one semester or summer session and may make application for the second degree at a subsequent session. If the session closes with commencement exercises, he will be required to attend in academic costume unless his application for excuse from commencement is approved.

(c) If a student desires to take a second bachelor's degree after he has received his first, he must complete the subject requirements for the second bachelor's degree, earn a minimum of 30 acceptable semester hours beyond the requirements for the first degree with the requisite scholastic average and have at least an additional semester of residence, or equivalent, in the college offering the second degree with the completion of at least 15 acceptable semester hours.

# **STUDENT ACTIVITIES and ORGANIZATIONS**

# STUDENT ACTIVITIES AND ORGANIZATIONS

## SOCIAL POLICY

The students, faculty, administrative officers of Ohio University and the community of Athens are united in their interest in maintaining a moral tone and a social pattern that is in keeping with good taste and acceptable social practice among educated people.

Ohio University has a long and interesting history. Succeeding generations of students who have come to the University with varying backgrounds and social interests have enriched the traditions, social standards, prestige, and reputation of the University. The University expects students to exercise discerning judgment and to be personally responsible for absorbing and complying with the social patterns of the university community.

The student body, faculty, and administrative officers, therefore, will employ any reasonable means to control moral indiscretions and social behavior which is in bad taste.

## CAMPUS AFFAIRS COMMITTEE

The Campus Affairs Committee is the official extracurricular executive committee, recognized and authorized by the President of Ohio University. The Dean of Men and the Dean of Women are the administration's permanent representatives to the committee and serve as co-chairmen, alternating annually as presiding officer. In addition, four faculty members—two men and two women—are appointed by the Dean of Students for three-year terms. The five student members are appointed each year. All of the Campus Affairs Committee student members are on the committee by virtue of their positions: the presidents of the Student Cabinet (elected by the campus at large), Panhellenic Council, Interfraternity Council, Men's Interdormitory Council, and Women's Interdormitory Council.

The four subcommittees of Campus Affairs Committee, social, publication, financial, and student government, receive study or research assignments from Campus

Affairs. Each subcommittee consists of two faculty members and two students, the chairman of each subcommittee being a faculty member on Campus Affairs Committee. Appointments to the subcommittee are made annually by the Dean of Students. Students are encouraged to apply for membership and are then screened by Student Cabinet. In order to provide continuity in student viewpoint, one student is chosen to serve for two consecutive years.

Campus Affairs Committee is held responsible by the President of the University for extracurricular policies, allocation of a portion of student fees, final decisions relating to new organizations on campus, those student activities which affect campus and public relationship, jurisdiction over rules and regulations in which both men and women are involved, and for any other matters which the President refers it.

The Committee meets regularly in Baker University Center on each Monday at 3:15 p.m., except during examination week. The Dean of Men and the Dean of Women serve as an executive committee for the Campus Affairs Committee when it is not feasible to assemble the entire committee.

## STUDENT CABINET

Student Cabinet, which is the official voice of the student body in matters of campus-wide concern, includes in its purposes the fostering of a spirit of unity and loyalty to Ohio University and the coordinating of all campus extra-curricular activities in cooperation with the Campus Affairs Committee.

The Student Cabinet consists of seven elected members:

President of the Student Body

Vice Presidents for:

Social Activities

Men's Judiciary and Standards

Women's Judiciary and Standards

Campus Service Activities

Scholastic and Cultural Activities

Organizational and Political Activities

Vice Presidents representing:

Interfraternity Council

Panhellenic Council

Men's Interdormitory Council

Women's Interdormitory Council

The Cabinet operates under a constitution of its own which has been approved by the Campus Affairs Committee. It has the delegated authority, with the approval of the Campus Affairs Committee, to consider, promote, and put into effect projects which pertain to student activities and, particularly, to promote a balanced campus-wide social program.

## PUBLICATIONS

The Ohio University Post, the student newspaper, is published five times a week. The Athena, a yearbook published under student editorship, appears toward the latter part of the spring semester. The editorial and business offices for both publications are located in Baker University Center.

Opportunities are provided for practical work in copy writing and editing, photography, salesmanship, accounting, business and editorial management. Students are encouraged to make application for various positions on the publication staff through the respective editors and business managers. There are also a number of salaried positions on both publications for qualified individuals. Dates for filing applications are announced through the University communications media. All applications must then be filed with the Dean of Men or the Dean of Women. Campus Affairs Committee, in consultation with the faculty advisers, is responsible for the selection of salaried staff members and for the overall management of the publications.

*Sphere* is the Ohio University literary magazine. Issued annually or semi-annually, it publishes student poetry, fiction, essays, photography and graphic art. It has a considerable campus circulation and is widely exchanged with student literary magazines from other schools. The magazine is managed by students and cooperating faculty members.

## SPEECH

### FORENSICS

Students with special talents in public speaking may acquire valuable practical experience by representing the University in one or more of several intercollegiate forensic events which are open to all stu-

dents under the auspices of the School of Dramatic Art and Speech.

### INTERCOLLEGIATE DEBATE AND DISCUSSION

Ohio University provides many opportunities for students wishing to participate in local, state, and national forensic programs. Previous experience is not necessary. Selected students, regardless of class rank or major, participate in intercollegiate tournaments, audience debates, intramural contests and television debates. Ohio University attends intercollegiate tournaments together with talented debaters from every part of the nation. Debaters travel as far north as Waltham, Massachusetts; as far south as Winston-Salem, North Carolina; as far east as Williamsburg, Virginia, and as far west as Reno, Nevada.

The Ohio Intercollegiate Debate Association provides state championship tournaments for varsity and first year debaters. The intercollegiate program in discussion affords superior students experience in group discussion, conference leadership, and legislative assemblies. In addition, Ohio University holds membership in Delta Sigma Rho-Tau Kappa Alpha, the national Honorary Forensic Fraternity which provides competition in workshops at both the regional and national levels.

### ORATORY

Ohio University is an active member of three state oratory associations. Participation in the State Oratorical and State Peace contests is open to both men and women.

### ORAL INTERPRETATION AND EXTEMPORANEOUS SPEAKING

Each year selected students represent the University in intercollegiate contests in oral interpretation, extemporaneous speaking, and manuscript reading sponsored by the Ohio Speech Association. Students interested in trying out for any of these events should contact Dr. Paul Boase, Director of Forensics, Room 302 of the Speech Building.

### RADIO STATIONS WOUB-AM AND FM

These stations are maintained by Ohio University to provide both a broadcasting service to the campus and community and a laboratory in which students can gain

practical experience in all phases of radio broadcasting. The 250 watts AM station broadcasts on 1340 kc. and has a range of approximately 30 miles. The 10 watt FM station broadcasts on 91.5 mc. and serves the Athens community. These stations are on the air 17 hours a day.

Students under faculty supervision are responsible for most of the operation of the stations and for the preparation and production of programs. Special events such as football and basketball games, lectures, and musical programs are broadcast through the stations' remote facilities. The effectiveness of the training received by students working at WOUB is demonstrated by frequent requests from broadcasters for WOUB-trained personnel. Many students who formerly worked at WOUB now hold important positions in the broadcasting industry.

## **WOUB-TV**

The Television Division of Ohio University has four primary functions: to assist in the instructional role of the University through closed-circuit broadcasts of curricular offerings, to help advance the techniques of teaching through television, to provide University students with practical training in television broadcasting as a supplement to their broad academic background, and to provide educational, cultural and public service programs to communities in Southeastern Ohio.

The University's educational television station, WOUB-TV, has a full-time professional staff of 15 persons who work with a part-time staff of more than 50 graduate and undergraduate students operating both closed-circuit and broadcast activities.

Local programs are produced in the Television building located in the renovated Moore House at 9 College Street.

In addition, the University Elementary School and the College of Education are equipped to originate and receive television transmissions. Other locations on campus are being wired for additional instructional activities.

WOUB-TV is affiliated with the National Educational and Ohio Educational Television networks and is a member of the Educational Television Stations Division of the National Association of Educational

Broadcasters. WOUB-TV broadcasts in the UHF band on Channel 20. In January of 1965, WOUB-TV began its third year of broadcasting with a power increase from 12,500 to 195,000 watts, made possible through a grant from the Department of Health, Education and Welfare. The coverage area now includes almost one half million people, and makes possible transmission of instructional broadcasts to most of the branch campuses.

## **THEATER**

A varied program of dramatic productions which is sponsored each year by the School of Dramatic Art and Speech offers a rewarding experience for those who enjoy the theater either as an active participant or as a member of the audience.

## **THE UNIVERSITY THEATRE**

The University Theatre seeks to serve two major objectives: first, to provide a broad cultural entertainment in theater for the campus community, and secondly, to furnish opportunities for students at all levels to participate in significant educational theater experiences. A program of major productions is presented under faculty supervision by students drawn from throughout the campus. Casts are chosen at public tryouts open to all students.

Included in the program each year are two plays presented as part of a four-year cycle representative of eight major periods of dramatic history from classical Greece to America of the early nineteen-hundreds. Other plays are drawn from the best of modern drama, both American and foreign with an occasional original script.

The University Theatre also cooperates with the Athens Children's Theatre in the local production of Children's plays.

## **STUDIO PRODUCTION SERIES**

In addition to the major production, the University Theatre gives several presentations of unusual and experimental drama, dance, musical, and readers theater productions each year. These are directed either by staff or by advanced students as class, thesis, or personal projects. All interested students are eligible to audition for roles.

## THEATRE WORKSHOP

The Theatre Workshop is a producing group comprised principally of student directors, actors, and technicians who are enrolled in courses in the School of Dramatic Art and Speech. However, roles in any production are open to all students in the University. Promising new scripts written by students are produced by the Workshop.

## THE OHIO VALLEY SUMMER THEATER

The Summer Theater, a joint project of the University and the Community of Athens, produces six plays each season and provides an opportunity for approximately 25 selected students to work and study full time in the theater. Faculty members and Athens residents work with students in all phases of production.

## THE MONOMOY THEATER ON CAPE COD

Ohio University leases the Monomy Theater in Chatham, Massachusetts, and operates it as a summer theater for a 10 week season of eight plays. The acting company is made up of students regularly enrolled in the University summer session and productions are under the direction of member of the University faculty.

## MUSIC ORGANIZATIONS

Membership in music organizations, with or without academic credit, is open to all qualified men and women. Vocal groups consist of the University Chorus, the University Singers, a small skilled choral ensemble of mixed voices chosen from the University Chorus, The University Men's Glee Club and the University Women's Glee Club.

The University Bands are composed of three musical organizations—the Symphonic Band, which maintains a well-balanced instrumentation of selected musicians; the Varsity Band, which serves as a recreational-laboratory group, and the Football

Marching Band, which is composed of all members of the Symphonic Band in addition to selected players from the Varsity Band.

The University Symphony Orchestra has a complete, well-balanced instrumentation of 70 members. Several concerts, using the standard symphonic repertoire, are given on the campus during the year.

## RELIGIOUS ORGANIZATIONS

### CAMPUS RELIGIOUS COUNCIL

Representatives of the religious organizations constitute the Campus Religious Council. The council serves as a coordinating agency for the programs of the various groups listed and initiates programs of an interfaith nature on the campus. The council is composed of the adult advisers and two student representatives from each organization.

### RELIGIOUS SOCIETIES

These organizations are sponsored by Athens churches or church-affiliated groups. All are social as well as religious in character and activities. Unless otherwise indicated, they are open to both men and women.

BAPTIST-DISCIPLE STUDENT FELLOWSHIP  
(Northern Baptist-Disciple)

BAPTIST STUDENT UNION

CANTERBURY ASSOCIATION (Episcopal)

CHRISTIAN SCIENCE ORGANIZATION

DESERET CLUB (Mormon)

EASTERN ORTHODOX CHRISTIAN FELLOWSHIP

HILLEL FOUNDATION (Jewish)

INTERVARSITY CHRISTIAN FELLOWSHIP  
(non-sectarian)

KAPPA PHI (Methodist women)

LUTHERAN STUDENT ASSOCIATION

NEWMAN CLUB (Catholic)

PHI CHI DELTA (Presbyterian women)

SIGMA THETA EPSILON (Methodist men)

UNITARIAN YOUTH FELLOWSHIP

WESLEY FOUNDATION (Methodist)

WESLEY PLAYERS (Methodist)

WESTMINSTER FOUNDATION (Presbyterian)

# SCHOLASTIC AND PROFESSIONAL

## HONOR SOCIETIES

These organizations confer membership in recognition of high scholastic attainment and the fulfillment of other constitutional requirements. Some of the societies recognize and encourage the development of a well-rounded personality and leadership and service qualities in addition to academic achievement. Unless otherwise indicated, membership is open to both men and women.

The first date is the founding date; the second the date the Ohio University chapter was established. Organizations are listed in the order of establishment at Ohio University.

- PHI UPSILON OMICRON.** 1909; 1921.  
Home Economics (women)
- KAPPA DELTA PI.** 1911; 1923.  
Education.
- PHI BETA KAPPA.** 1776; 1929.  
Liberal Arts.
- KAPPA TAU ALPHA.** 1910; 1929.  
Journalism.
- EPSILON PI TAU.** 1929; 1934.  
Industrial Arts Education.
- PHI ETA SIGMA.** 1923; 1936.  
Freshmen Scholarship (men).
- MORTAR BOARD.** 1918; 1938.  
Student Leadership and Service (senior women).
- ALPHA LAMBDA DELTA.** 1924; 1941.  
Freshman Scholarship (women)
- BETA GAMMA SIGMA.** 1913; 1951.  
Business Administration.
- OMICRON DELTA KAPPA.** 1914; 1951.  
Student Leadership and Service (men).
- TAU BETA PI.** 1885; 1953.  
Engineering (men).
- PHI KAPPA PHI.** 1897; 1956.  
All Academic Fields.
- PI GAMMA MU.** 1924; 1956.  
Social Science.
- SIGMA PI SIGMA.** 1921; 1958.  
Physics.
- ETA KAPPA NU.** 1904; 1960.  
Electrical Engineering.
- SIGMA XI.** 1886; 1961.  
Science.

## NATIONAL PROFESSIONAL, RECOGNITION, OR DEPARTMENT SOCIETIES

These organizations confer membership in recognition of achievements in specific fields of education or service. Unless otherwise indicated, membership is open to both men and women.

- BETA ALPHA PSI**  
Accounting
- DELTA TAU ALPHA**  
Agriculture
- AMERICAN INSTITUTE OF ARCHITECTS**  
Architecture
- DELTA PHI DELTA**  
Art
- KAPPA KAPPA PSI**  
Band
- TAU BETA SIGMA**  
Band (women)
- DELTA SIGMA PI**  
Business Administration (men)
- ALPHA PHI OMEGA**  
Campus Service (men)
- CIRCLE K**  
Campus Service (men)
- CHIMES**  
Campus Leadership (women)
- J-CLUB**  
Campus Leadership (men)
- ETA SIGMA PHI**  
Classical Languages
- NATIONAL COLLEGIATE PLAYERS**  
Dramatics
- OHIO STUDENT EDUCATION ASSOCIATION**  
Education
- PHI DELTA KAPPA**  
Education (graduate men)
- SOCIETY OF CHEMICAL ENGINEERS**  
Engineering
- AMERICAN SOCIETY OF CIVIL ENGINEERS**  
Engineering
- AMERICAN SOCIETY OF MECHANICAL ENGINEERS**  
Engineering
- INSTITUTE OF ELECTRONIC AND ELECTRICAL ENGINEERS**  
Engineering
- OHIO SOCIETY OF PROFESSIONAL ENGINEERS**  
Engineering
- DELTA PHI ALPHA**  
German
- PHI ALPHA THETA**  
History
- HOME ECONOMICS CLUB**  
Home Economics (women)
- THETA SIGMA PHI**  
Journalism (women)

SIGMA DELTA CHI  
Journalism (men)  
ARNOLD AIR SOCIETY  
Military (men)  
PERSHING RIFLES  
Military (men)  
PERSHING RIFLES 3RD BN.  
Military (men)  
SCABBARD AND BLADE  
Military (men)  
SIGMA ALPHA IOTA  
Music (women)  
PHI MU ALPHA  
Music (men)  
MUSIC EDUCATORS NATIONAL CONFERENCE  
Music  
AMERICAN INSTITUTE OF PHYSICS  
Physics  
Psi Chi  
Psychology  
ALPHA EPSILON RHO  
Radio  
ALPHA KAPPA DELTA  
Sociology  
SIGMA ALPHA ETA  
Speech Therapy  
BLUE KEY  
Student Activities (men)

### SPECIAL INTEREST SOCIETIES

Departmental and other organizations that are not affiliated with national groups.

ALPHA OMEGA UPSILON  
AMATEUR RADIO CLUB  
ANGEL FLIGHT  
ATHENA  
BAND  
CHEMICAL SOCIETY  
CHILDHOOD EDUCATION CLUB  
CHI PSI OMEGA (Botany-Zoology)  
DER DEUTSCHE VEREIN (German)  
DOLPHIN CLUB (Swimming)  
FINNETTES CLUB (Swimming)  
FLYING BOBCATS  
FOOTLIGHTERS (Dramatics)  
ICE HOCKEY CLUB  
INDUSTRIAL ARTS CLUB  
IN GROUP, LIMITED  
INTERNATIONAL CLUB  
JUDO CLUB  
OHIO UNIVERSITY POST  
OHIO UNIVERSITY STUDENT CHAPTER OF  
SOCIETY OF CHEMICAL ENGINEERS  
ORCHESIS (Dance)  
PERSHING CADETTES  
RIFLE CLUB  
RUSSIAN LANGUAGE CLUB

SAILING CLUB  
SOCIOLOGY CLUB  
SPHERE MAGAZINE  
SYMPHONY ORCHESTRA  
UNIVERSITY CHORUS  
UNIVERSITY SINGERS  
VARSITY "O" (Sports)  
WEIGHTLIFTING CLUB  
WOMEN'S FIELD HOCKEY CLUB  
WOMEN'S RECREATION ASSOCIATION  
WOMEN'S TENNIS CLUB  
YEOMEN CLUB  
YOUNG DEMOCRATIC CLUB  
YOUNG REPUBLICAN CLUB

## SOCIAL FRATERNITIES

These self-perpetuating groups organize the social life of their members as a contributing factor to their educational program. Membership is upon invitation only.

### INTERFRATERNITY COUNCIL

(Men)\*

BETA THETA PI (1839)†—  
Beta Kappa Chapter, 1841  
DELTA TAU DELTA (1859)—  
Beta Chapter, 1862  
PHI DELTA THETA (1848)—  
Ohio Gamma Chapter, 1868  
PHI KAPPA TAU (1906)—  
Beta Chapter, 1909  
LAMBDA CHI ALPHA (1909)—  
Alpha Omega Chapter, 1918 (inactive  
1937-1950)  
THETA CHI (1856)—  
Alpha Tau Chapter, 1925  
TAU KAPPA EPSILON (1899)—  
Alpha Beta Chapter, 1927  
PHI KAPPA THETA (1889)—  
Psi Chapter, 1929  
PI KAPPA ALPHA (1868)—  
Gamma Omicron Chapter, 1930  
PHI EPSILON PI (1904)—  
Alpha Rho Chapter, 1933  
PHI SIGMA DELTA (1910)—  
Alpha Delta Chapter, 1948  
ACACIA (1904)—  
Ohio Trowel Chapter, 1949  
SIGMA CHI (1855)—  
Delta Pi Chapter, 1949  
ALPHA PHI ALPHA (1906)—  
Phi Chapter, 1950  
SIGMA NU (1869)—  
Zeta Mu, 1951

SIGMA ALPHA EPSILON (1856)—  
Ohio Gamma Chapter, 1953  
PHI KAPPA SIGMA (1850)—  
Beta Zeta Chapter, 1953  
DELTA UPSILON (1834)—  
Ohio Chapter, 1955  
PHI GAMMA DELTA (1845)—  
Delta Colony, 1965

### PANHELLENIC ASSOCIATION (Women)\*

PI BETA PHI (1867)†—  
Ohio Alpha Chapter, 1889  
ALPHA GAMMA DELTA (1904)—  
Zeta Chapter, 1908  
ALPHA XI DELTA (1893)—  
Pi Chapter, 1911  
CHI OMEGA (1895)—  
Tau Alpha Chapter, 1913  
ALPHA DELTA PI (1851)—  
Xi Chapter, 1914  
ZETA TAU ALPHA (1898)—  
Alpha Pi Chapter, 1922  
PHI MU (1852)—  
Delta Delta Chapter, 1927  
SIGMA KAPPA (1874)—  
Beta Upsilon Chapter, 1949  
ALPHA EPSILON PHI (1909)—  
Alpha Phi Chapter, 1951  
KAPPA DELTA (1897)—  
Gamma Eta Chapter, 1955  
THETA PHI ALPHA (1912)—  
Delta Chapter, 1957  
DELTA SIGMA THETA (1913)—

\* Listed in order of establishment at Ohio University.  
† Year of founding of national organization.

### INDEPENDENT GROUPS

These organizations are for students who are not affiliated with Greek-Letter social groups.

IODA  
K MEN

### STUDENT GOVERNMENT ASSOCIATIONS AND CLASS ORGANIZATIONS

BAKER CENTER PROGRAM BOARD  
BERRY HALL HOUSE COUNCIL  
BIDDLE HALL HOUSE COUNCIL  
BRYAN HALL HOUSE COUNCIL  
BUSH HALL HOUSE COUNCIL  
CAMPUS AFFAIRS COMMITTEE  
CHUBB HOUSE COUNCIL (Graduate)  
CROOK HALL HOUSE COUNCIL  
GAMERTSFELDER HALL HOUSE COUNCIL  
GROSVENOR HALL HOUSE COUNCIL  
HOWARD HALL HOUSE COUNCIL  
INTERFRATERNITY COUNCIL  
IRVINE HALL HOUSE COUNCIL  
JAMES HALL HOUSE COUNCIL  
JEFFERSON HALL HOUSE COUNCIL  
KAHLER COTTAGE COUNCIL (French)  
LINCOLN HALL HOUSE COUNCIL  
LINDLEY HALL HOUSE COUNCIL  
MATTHEWS COTTAGE COUNCIL (Spanish)  
MEN'S INTERDORMITORY COUNCIL  
NOSS COTTAGE COUNCIL (German)  
PANHELLENIC ASSOCIATION  
PARKS HALL HOUSE COUNCIL  
PERKINS HALL HOUSE COUNCIL  
READ HALL HOUSE COUNCIL  
RYORS HALL HOUSE COUNCIL  
SARGENT HALL HOUSE COUNCIL  
SCOTT QUADRANGLE HOUSE COUNCIL  
SENIOR CLASS OFFICERS  
SHIVELY HALL HOUSE COUNCIL  
STUDENT CABINET  
TIFFIN HALL HOUSE COUNCIL  
TREUDLEY HALL HOUSE COUNCIL  
VOIGT HALL HOUSE COUNCIL  
WASHINGTON HALL HOUSE COUNCIL  
WILSON HALL HOUSE COUNCIL  
WOMEN'S INTERDORMITORY COUNCIL



*The Concert Under The Elms on the College Green has become a traditional event during the spring and summer months. The Concert Band performances are open to both the city and University communities.*



*Basketball, Mid-American Conference style, provides thrills and plenty of action in Grover Center. Within two years the Bobcats will be playing in the new Beasley Convocation Center, a \$7 million structure that will seat 14,000.*



*The Faculty Fellows Program offers the opportunity for faculty and students to interact on an informal basis and to discuss both social and personal concerns. President Alden, left, and two faculty members answer questions in the lounge of a West Green residence hall.*



*The College Green and Class Gateway as seen from Baker Center. Construction on the main Athens campus will total \$41 million in the next four years. During this period, the University will make an investment in physical facilities equal to that of its entire 162 year history.*

# THE UNIVERSITY COLLEGE

Gaige B. Paulsen, *Dean*

Bernard R. Black, *Assistant Dean*

Dudley B. Woodard, Jr., *Assistant to the Dean*

Basic preparation for admission to each  
of the degree-granting colleges.

Two-Year Terminal programs leading to  
the Associate in Arts degree.

## THE UNIVERSITY COLLEGE

All freshmen enroll in the University College which concerns itself primarily with the problems of the first-year students—their courses of study and their guidance during the period of transition from high school to college. The freshman year in the University College and the following three years in one of the degree colleges represent the normal time required for completion of any of the baccalaureate degree programs. Students in the Ohio University branches are also enrolled in the University College.

During the first week of the semester in which a student is first enrolled, the University College conducts a program of orientation for freshmen. All new students are required to attend Freshman Week activities. Placement tests are given to assist students and their counselors in the selection of courses and educational objectives. Meetings are held during the week to help students become acquainted with the University, its history and traditions, regulations, opportunities for development, and student activities and organizations. A copy of the "Orientation and Studies in the Freshman Year" bulletin is sent to each new student prior to enrollment in the University. It includes the program for the week, the exact time and place of all events.

A Pre-College Conference in the summer provides an opportunity to visit the campus for one day to complete the freshman tests, to learn the significance of the scores, to confer with a faculty counselor, to prepare a schedule of classes, and to complete registration procedures.

It is required that the prospective student complete the American College Testing Program. All students living in Ohio will be notified through their high schools about the program and the tests will be administered at special testing centers. These tests will develop information for the individual student, and Ohio University will also use the test results for purposes of classification and placement.

The University College aims to provide an educational program that will best meet the individual needs of the student. The courses in the freshman year are planned to provide studies generally recognized as essential to the educated person.

Students are advised to consider it a year of broad preparation for later specialization. General course requirements are determined to complement the work done in high school and to take into account the educational objectives of the student.

General requirements of the University College are determined as follows:

1. English Composition—Eng. 3-4, 7.  
Students demonstrating superior ability on the placement tests will be given an Honor Placement in English 7.
2. Fundamentals of Speech—Speech 1.
3. Physical Education—two semesters.
4. One year in each of two of the four following groups:

(If a student has a specific requirement due to high school deficiency, as in Humanities and Natural Science, the courses taken to meet these two requirements also meet the two-group requirement, or a course taken to meet one specific requirement also is counted as meeting one of the two-group requirement. A course or courses taken to meet specific requirements also apply toward the two-group requirement.)

- A. HUMANITIES: (a) Foreign language; (b) Humanities 7, 8—The Great Books (see "General Studies"); (c) Fine Arts 17-18—Introduction to the Fine Arts; (d) Phil. 1—Principles of reasoning, and Phil. 2—Moral Philosophies.

Students with less than two years of foreign language in high school are required to take a year in one subject in the Humanities group.

- B. MATHEMATICS: Math 3—College Algebra; Math 4—Basic Mathematics for Business Analysis; Math. 9, 10—Fundamentals of Mathematics; Math. 11, 12; Math. 14—Trigonometry; Math. 15—Freshman Mathematics; Math. 16—Analytic Geometry and Calculus.

Students who have had no algebra or plane geometry in high school take Math. 1—Elementary Algebra and Math. 2—Euclidean Geometry. Students who have had one year of algebra and no plane geometry take Math. 2. Math. 1 and Math. 2 are offered only in the summer session. Students are strongly urged to complete algebra and plane geometry in high school since completion of Math. 1 and Math. 2 is a grad-

uation requirement which contributes no credit or points toward the bachelor's degree.

C. NATURAL SCIENCES:

Biological—Biol. 1-2—The Living World (see "General Studies"); Bot. 3-4—General Botany; Zool. 3-4—Principles of Zoology.

Physical—Chem. 3-4 and 99, or 7—General Chemistry and Qualitative Analysis; Geol. 3-4—Elements of Geology; Phys. Sc. 3-4—The Physical World; Phys. 5-6—Introduction to Physics.

Students with less than two full years of laboratory science in high school take a year in one science in the area in which no science was taken in high school; i.e., if Biological Science was taken in high school the requirement is in Physical Science. (High school courses such as general science and senior science are excluded.) Exceptions to this requirement must be approved by the Dean of the University College

D. SOCIAL SCIENCE: Ec. 11-12—Principles of Economics; Geog. 3—Elements of Physical Geography, Geog. 4—World Regional Geography; Govt. 1, 2 American Government; Hist. 1, 2—Western 1—General Psychology, Psych. 2—Applications of Psychology; Soc. Sc. 9, 10—Citizenship in the Modern World (see "General Studies"); Soc. 1—Introduction to Sociology, Soc. 2—Social Problems.

Students with less than two years in any combination of courses in social science taken in high school are required to take one year of social science.

In addition, many courses have been selected which a freshman student may carry on an elective basis, but do not meet the specific requirements.

The student normally plans his schedule to complete the University requirements in the freshman year. A student who has chosen a degree is advised to select courses from among those offered in the four groups above that are especially recommended for the particular curriculum he expects to follow.

For example, it is suggested that a student who expects to pursue a program in the Arts and Sciences and who will have a language requirement, carry a language course to meet the humanities requirement.

The student who has not decided upon any definite course will find that the University College program affords him an opportunity to explore various fields of knowledge so that a wiser final choice may be made. No student's schedule may include more than five semester hours in courses not included in the general requirement or in any one of the four groups.

**COUNSELING PROGRAM.** This program is designed to help the student make wise decisions regarding his academic plans. In addition, it encourages him to develop initiative and increasing responsibility for his personal development. Each student is assigned to a faculty counselor selected because of his similar professional interest with the student. Throughout the year the student confers with his counselor: at the beginning of each semester for schedule preparation, at the time of the two grade periods each semester (end of seventh and 13th weeks), and at other times advice or assistance is needed.

**ADVANCEMENT TO DEGREE COLLEGE.** At the end of two semesters a student may be advanced to the degree college of his choice provided he has completed the Mathematics 1 and 2 requirement and earned at least 25 hours of credit. Graduation from the University requires the completion of all University College requirements. The student is advised to include courses for completing any unfulfilled University College requirements in his sophomore schedule of classes. Engineering students are eligible for advancement only if they have completed Math. 16. A 1.8 average and completion of Psychology 1 are required of students advancing to the College of Education. Students must qualify for advancement to a degree college following completion of no more than five semesters in the University College.

**TERMINAL PROGRAM LEADING TO THE ASSOCIATE IN ARTS DEGREE.** The University College offers a program of study for the student who does not intend to complete a four-year degree program and who plans to spend only two years in the University. Its completion leads to the Associate in Arts degree.

The Associate in Arts program includes English composition, physical education, speech, and other general education and

career courses. The same standards of academic achievement as for the bachelor's degree are required during the progress of the program. The student must complete 62 hours with a minimum of 124 grade points in no more than five regular semesters. Application for the degree is made at the office of the Registrar at the time announced for all degree candidates and must be accompanied by a fee of \$7.50.

The curricula for terminal programs outlined furnish the student with a background to certain professional schools or for employment in a special position. Curricula included are agriculture, general business, home economics, journalism (with work in either advertising or radio speech), metalworking, premortuary science, prepharmacy, preveterinary medicine, and recreation leadership. Additional curricula are included and other special programs may be planned to meet the needs of the student.

When the student decides to pursue one of these programs, he confers with his counselor and prepares an outline of courses which he will carry to complete the program. This is filed with the University College office. Credit earned while enrolled in a terminal program may be counted on a four-year degree course, subject to the approval of the dean of the degree college in

which he later enrolls. A student who shifts to a degree program is required to complete all University College requirements. This shift from a terminal program to a degree program may involve spending additional time in completing the degree requirements, since some of these requirements are normally completed in the first two years and may not have been a part of the Associate in Arts program.

**STUDENT HOUR LOAD FOR FRESHMEN IN THE UNIVERSITY COLLEGE.** It is important that a student establish good study habits and at the same time complete one fourth of the work required for a degree (from 31 to 36 semester hours credit) during the freshman year.

So that a student may accomplish these things and carry a load adjusted to his demonstrated ability in high school, a full-time student not on probation is required to carry a minimum load of 15 semester hours credit. The maximum load will usually not exceed 17 semester hours (18 or 19 semester hours for an engineering student). The load for a student on probation is 12-14 credit hours. Any exception to the above regulations—either to carry a load in excess of the maximum or less than the minimum—must be approved by the dean of the University College.

# The College of ARTS AND SCIENCES

George R. Klare, *Dean*

William B. Sheeder, *Assistant to the Dean*

- Anthropology
- Archaeology and Antiquities
- Astronomy
- Botany
- Chemistry
- Classical Languages
- English
- Linguistics
- General Studies
  - Latin American Studies
  - Biology
  - Great Books
  - Physical Science
  - Social Science
- Geography and Geology
- Government
- History
- Human Relations
- Mathematics
- Modern Languages
  - French
  - German
  - Italian
  - Russian
  - Spanish
- Philosophy
- Physics
- Psychology
- Sociology
- Zoology
- Bacteriology
- Preparation for Teaching  
at the Secondary Level

## THE COLLEGE OF ARTS AND SCIENCES

Ohio University remained a liberal arts college for almost a hundred years after it was founded. With the expansion of curricula and organization of new colleges and divisions during the last 50 years, the College of Arts and Sciences has held to what has been the central purpose of the college for a century and a half, namely, to provide opportunities for the student to secure a general, liberal education. A liberal education affords an acquaintance with the language, skills, and methods in some area at a level that is beyond introductory concepts and methods. It prepares the student for more advanced graduate or professional training in some fields or for immediate vocation.

These objectives are achieved through courses which make up the curriculum of the College, and through degree requirements so arranged that the student gets specialized knowledge in some particular field or area together with a fundamental education in the humanities, natural sciences, and the social sciences.

The College includes the following departments:

Botany  
Chemistry  
Classical Languages  
English  
Geography and Geology  
Government  
History  
Human Relations  
Mathematics and  
Astronomy  
Modern Languages  
French  
German  
Italian  
Russian  
Spanish  
Philosophy  
Physics  
Psychology  
Sociology and  
Anthropology  
Zoology  
Bacteriology

Departments of the College are accredited or recognized by leading professional associations. These include the Coun-

cil on Social Work Education, the American Chemical Society, the American Psychological Association, and the Board of Registry of the American Society of Clinical Pathologists.

Since a student enrolled in any college at Ohio University may elect courses in any other college with considerable freedom, much of the course work required by the other colleges is offered by the faculty of the College of Arts and Sciences. In turn, a student pursuing a degree in this College may elect courses, in some instances completing a major, in departments of the other colleges.

A student entering the College of Arts and Sciences is assigned an adviser who is a member of the faculty teaching in the area in which the student expects to major. The faculty adviser will assist in the preparation of a schedule each semester so that a proper sequence of courses in the major and appropriate relative courses are selected. The *student is responsible* for being certain that all requirements for the degree are being met.

The College offers two degrees—the Bachelor of Arts and the Bachelor of Science. The requirements for the degrees represent a considerable distribution of studies, yet require sufficient stress in a major field to insure some degree of mastery of at least one area. All candidates in the College of Arts and Sciences must have a minimum point-hour ratio of 2.0 (C) on all hours attempted, including a 2.0 ratio in the major, but including only the final hours and points in repeated courses.

The normal resident load requirement for a student enrolled in the College is a minimum of 15 semester hours and a usual maximum of 17 semester hours when not on probation, and a minimum of 12 semester hours and a maximum of 14 semester hours when on probation. Any exception to these load requirements must be approved by the dean of the College.

Students who do not complete all University College requirements in the freshman year are expected to have these completed before being advanced to the junior year. Students who have requirements which involve courses numbered below 100

should start meeting such requirements not later than the beginning of the sophomore year. This is particularly recommended in the case of foreign language. Registration for courses numbered below 100 is prohibited for juniors and seniors in many areas, and is discouraged in all areas.

## BACHELOR OF ARTS

A total of 124 semester hours is required for the degree of Bachelor of Arts, subject to the following conditions:

(a) At least 60 hours must be in courses numbered above 100. Courses above 100 for which elective credit is given do not count toward this requirement. Elective credit is given for courses taken in divisions or departments for which no major is provided in the College, as, for example, industrial arts, aerospace studies, military science, and physical education, and for courses not listed as meeting degree requirements. Exception is made for courses in Education above 100 required for teacher certification. This applies only to students who complete all requirements for certification. A further exception is made for majors in Economics who may elect nine credit hours from among the following courses which will apply to the requirement for courses above the 100 level: Advertising 155; Business Law 255-256; Finance 110, 351; Management 211, 325; Marketing 155; Statistics 155, 341. Further exceptions may be made only on review by, and approval of, the dean of the College.

A maximum of eight elective credit hours in applied music, two elective credit hours in physical education activity courses, and six elective hours in industrial arts are accepted toward the 124 hour degree requirement.

(b) At least six hours in the major field must be in courses numbered above 300. (See preceding section. This is determined by the individual department.)

(c) A minimum total of 70 hours must include: English composition; foreign language, if required; courses in humanities, natural sciences, and social sciences, as required (see "e" below); and all courses in the major in any department in the College of Arts and Sciences, or in the major in an approved department in another college.

(d) Not more than 40 hours in any one

department may be counted in the 124 hours required.

(e) No course may satisfy more than one of the following requirements, and the courses selected to meet the requirements in foreign languages, humanities, social sciences, and natural sciences must be from departments other than that in which the student is a major. For example, an English major may not apply courses in English toward the humanities requirement, even though these be courses not required for the major, or in excess of the hours required for the major. Likewise, a zoology major must meet the natural science requirement in departments other than zoology.

The specific requirements for the degree are:

	Hours
ENGLISH COMPOSITION:	
Courses 3-4, or 7 .....	3-6
PHYSICAL EDUCATION: Activities	
courses as required .....	0-2
SPEECH: Fundamentals of	
Speech (or waiver) .....	1
FOREIGN LANGUAGE: Complete in	
sequence through course 102 in	
one language .....	0-16

A student who enters Ohio University from a foreign country and whose native tongue is not English, may satisfy the foreign language requirement by demonstrating competence in English (to be approved by the chairman of the English department, or by passing the English proficiency test) or by taking a foreign language other than his own language.

Achievement of proficiency in a foreign language equivalent to that attained upon completion of two college years of one language is required. A student who has had equivalent preparation (four years in one language in high school) to the above requirement may satisfy this requirement by passing an examination in the language concerned (the student is advised to take this examination as soon as practicable after his initial registration in the University, and the examination must be completed prior to the semester in which the student is a candidate for graduation) or by completing two semesters of the language at the 200 level.

An exception is made for the student with two years of high school Latin who may

complete the requirement by taking one year of Greek.

Credit for the degree is not extended for foreign language courses 1 and/or 2 (effective with 1961 summer session) or 101 and/or 102 (effective with 1963 summer session) if they constitute a repetition of work completed in high school. Students having two years of one foreign language in high school should register for course 101 in the same language or course 1 of a different language. Students having four years of one foreign language in high school should register for a 200 level course of the same language or course 1 of a different foreign language.

**HUMANITIES:** Select courses from two or more of the following with at least six hours in one ..... 12

- (a) Archaeology
- (b) English courses numbered above 100
- (c) Foreign language courses other than those necessary to complete the foreign language requirement.
- (d) Philosophy
- (e) Humanities 7, 8 or 107, 108—Great Books
- (f) Fine Arts

Of the fine arts courses, only those in the history and appreciation of fine arts satisfy the 12-hour group requirement. Music 5 (Music Appreciation) may be taken except in cases where Fine Arts 123-124 has been previously completed.

**NATURAL SCIENCES:** A one-year course in one department and at least a one-semester course in another ..... 12

A minimum of a one-year course in biological science and a one-year course in physical science must be completed in either high school or college. If either requirement was not completed in high school, this must be done in college as part of the 12-hour requirement, and in courses which must include laboratory work as part of the course. If the requirement was completed in high school, the 12-hour requirement may be met in any two of the following departments or courses:

- Biological Sciences:
  - (a) Biology 1-2
  - (b) Botany
  - (c) Psychology 226, 228, 312, or 314, except for psychology majors
  - (d) Zoology
- Physical Sciences:
  - (a) Astronomy
  - (b) Chemistry
  - (c) Geography 111 or 112, except for geography majors
  - (d) Geology
  - (e) Physics
  - (f) Physical Science 3, 4 or 103, 104
  - (g) Psychology 121, except for psychology majors
  - (h) Mathematics (except 1, 2, 4, 7, 8)

Students who have completed Biology 1-2 can not receive credit for Botany 3-4 or Zoology 3-4. Students who have completed Botany 3-4 or Zoology 3-4 can not receive credit for Biology 1-2.

**SOCIAL SCIENCES:** Select courses from two or more departments with at least six hours in one department ..... 12

- (a) Economics
- (b) History
- (c) Human Relations
- (d) Geography (except 111, 112)
- (e) Government
- (f) Psychology (except 121, 226, 228, 312, or 314)
- (g) Sociology
- (h) Social Science 9, 10, or 209, 210

**MAJOR:** See departmental requirements for total hours and particular courses in the major and related fields recommended or required.

- (a) A minimum of 24 hours (exclusive of hours earned in methods courses), including at least six hour in courses numbered above 300, selected from a single department (see specific department requirements), in consultation with an adviser from that department; or
- (b) Dual Major—15 hours beyond the introductory course, including six hours above the 300 level, in each of two closely related departments. Courses must be chosen with the approval of an adviser in each of the two departments. Courses taken in either or both of two departments for a dual major, even though not required for the major, cannot be used to meet the general area requirements in language, humanities, natural science, and social science.

A transfer student is required to complete at least eight hours toward the major in courses at the 100 level or above at Ohio University, with a point-hour ratio of at least 2.0, the courses to be approved by the department chairman. A transfer student completing the dual major is required to complete at least six hours at the 100 level or above in each of two departments at Ohio University, with a point-hour ratio of at least 2.0, the courses to be approved by the chairmen of the two departments.

A student may complete a major for the Bachelor of Arts degree in any of the following departments by meeting the specific requirements outlined above and the number of hours and courses specified by the department concerned: botany, chemistry, classical languages, dramatic art and speech, economics, English, geography, geology, government, history, home economics, journalism, mathematics, modern languages, music, painting and allied arts, philosophy, physics, psychology, sociology, speech therapy, and zoology.

The specific requirements in the departments in the College of Arts and Sciences are indicated in the descriptive material covering the department. Requirements in departments outside the College are determined by an adviser in the department.

It is left to the discretion of the dean of the College to approve modification of these requirements.

## BACHELOR OF SCIENCE

A total of 124 hours is required for the degree of Bachelor of Science subject to the following conditions:

(a) At least 60 hours must be in courses numbered above 100. Courses above 100 for which elective credit is given do not count toward this requirement. Elective credit is given for courses taken in divisions or departments for which no major is provided in the College, as, for example, industrial arts, aerospace studies, military science, physical education, and for courses not listed as meeting degree requirements. A maximum of eight elective credit hours in applied music; two elective credit hours in physical education activities courses, and six elective hours in industrial arts, are accepted toward the 124-hour degree requirement. Exception is made for courses in Education above 100 required for teacher certification (p. 109). Further exceptions may be made only on review by and approval of the dean of the college.

(b) At least six hours in the major field must be in courses numbered above 300 (see the preceding paragraph and specific department requirements).

(c) A minimum total of 70 hours which must include: English composition; foreign language, if required; courses in humanities, natural sciences, and social sciences, as required (see "e" below); and all courses in the major in any department in the College of Arts and Sciences, or in the major in an approved department in another college.

(d) Not more than 45 hours in any one department may be counted in the 124 hours required.

(e) No course may satisfy more than one of the following requirements:

The specific requirements for the degree are:

	Hours
ENGLISH COMPOSITION: Courses 3-4 or 7 .....	3-6
PHYSICAL EDUCATION: Activities courses as required .....	0-2
SPEECH: Fundamentals of (or waiver) .....	1
FOREIGN LANGUAGE: Two college years, or equivalent .....	0.16
The foreign language requirement is two years of foreign language completed in college, or the equivalent completed in high school, or in high school and college. Two years of one high school foreign language are considered the equivalent of one year in college. Students who enter with two years of language but with less than four years, have a one-year requirement. Students who enter with less than two years of high school language have a two-year requirement in college.	
If the language in which two years were completed in high school is continued in college, the student must complete through course 102 in this language to complete the requirement. If the student changes to a different language, one year of this language will complete the requirement. Credit is not extended toward meeting the language requirement for the first semester of a beginning language unless the second semester is completed.	
Credit for the degree is not extended for language courses 1 and/or 2 (effective with 1961 summer session) or 101 and/or 102, (effective with 1963 summer session) if they constitute a repetition of work previously completed in high school.	
HUMANITIES: Select courses from two or more of the following with at least six hours in one .....	12
(a) Archaeology	
(b) English courses numbered above 100	
(c) Foreign language courses other than those necessary to complete the foreign language re- quirement.	
(d) Philosophy	
(e) Humanities 7, 8 or 107, 108—Great Books	
(f) Fine Arts	
Of the fine arts courses only those in the history and appreciation of fine arts satisfy the 12-hour group requirement. Music 5 (Music Apprecia- tion) may be taken except in cases where Fine Arts 123-124 has been previously completed.	
NATURAL SCIENCES: A one-year course in one department and at least a one- semester course in another .....	12

A minimum of a one-year course in biological science and a one-year course in physical science must be completed in either high school or college. If either requirement was not completed in high school, this must be done in college as part of the 12-hour requirement and in courses which must include laboratory work as part of the course. If the requirement was completed in high school, the 12-hour requirement may be met in any two of the following departments or courses:

Biological Sciences:	Physical Sciences:
(a) Biology 1-2	(a) Astronomy
(b) Botany	(b) Chemistry
(c) Psychology 226, 228, 312, or 314	(c) Geography 111, 112
(d) Zoology	(d) Geology
	(e) Physics
	(f) Psychology 121
	(g) Mathematics (except 1, 2, 4, 7, 8)

Courses meeting this requirement must be selected from departments other than the one in which the student is a major. Students who have completed Biology 1-2 cannot receive credit for Botany 1-2 or Zoology 3-4. Students who have completed Botany 3-4 or Zoology 3-4 can not receive credit for Biology 1-2.

**SOCIAL SCIENCES:** Select courses from two or more departments with at least six hours in one department ... 12

- (a) Economics
- (b) History
- (c) Human Relations
- (d) Geography (except 111, 112)
- (e) Government
- (f) Psychology (except 121, 226, 228, 312, or 314)
- (g) Sociology
- (h) Social Science 9, 10, or 209, 210

**MAJOR:** See departmental requirements for particular courses in the major and related fields recommended or required.

- (a) A minimum of 24 hours (exclusive of hours earned in methods courses), including six hours in courses numbered above 300 (see specific requirements for the department), selected from one of the following departments: Botany, Chemistry, Geology, Home Economics, Mathematics, Physics, or Zoology in consultation with and adviser from that department; or
- (b) Dual Major—15 hours beyond the introductory course, including six hours above the 300 level, in each of two closely related departments. Courses must be chosen with the approval of an adviser in each of the two departments. Courses taken in either or both of two departments for a dual major, even though not required for the major, cannot be used to meet the general area requirement in natural science.

A transfer student is required to complete at least eight hours toward the major in courses at the 100 level or above at Ohio University, with a point-hour ratio of at least 2.0, the courses to be approved by the department chairman. A transfer student completing the dual major is required to

complete at least six hours at the 100 level or above in each of two departments at Ohio University, with a point-hour ratio of at least 2.0, the courses to be approved by the chairmen of the two departments.

It is left to the discretion of the dean of the College to approve modification of these requirements in exceptional cases.

#### DEGREE-IN-ABSENTIA

Students who have completed 94 semester hours at Ohio University with a point-hour ratio of 2.0 or above on all hours attempted, including the major, and have satisfied the requirements for the degree of Bachelor of Arts or Bachelor of Science, except for the remaining 30 hours of credit, may obtain the degree after completing a full year's work of the quality prescribed for the bachelors' degree at Ohio University in an accredited school of dentistry, law or medicine, including advancement, without condition, to the second year in professional school, provided that before entering the professional school, the student secures a statement from the dean of the College of Arts and Sciences granting the degree-in-absentia privilege.

## SPECIAL CURRICULA

### LATIN AMERICAN STUDIES PROGRAM

The Latin American Studies Program is an interdisciplinary curriculum for students interested in Latin American culture, history, and the Spanish language. The program will develop around a major in one of the following departments: Economics, Government, History, Sociology or Spanish. Twenty-four hours of credit in courses with Latin American content will be required; some of these will be in the field of the student's major, while others will help to meet area requirements. For instance, a major in Spanish may take a course in Latin American history, which will apply toward the social science requirement.

A reading and speaking knowledge of Spanish is to be acquired through a program with a minimum of 21 credit hours in Spanish, which may apply toward the language requirement, or toward the major if that area is selected by the student.

This program will require a summer's residence in Mexico, Puerto Rico, or other suitable country in which arrangements

can be made. The summer between the junior and senior years is recommended.

Courses of Latin American content now offered are: Fine Arts 371; Economics 375; Geography 305; History 145, 146, 347, 348; Spanish 201, 202, 220, 221.

Courses with broad concern with political movements, international relations, and social organization, and which may be elected are the following: Economics 329 and 342; Government 216, 323 and 344; History 324; Sociology 321.

#### PREPARATION FOR DENTISTRY

The minimum requirement for admission to dental school is the completion of at least 64 semester hours of college work which must include general chemistry (including qualitative analysis), organic chemistry, physics, zoology (including comparative anatomy), and English. A broad training in courses other than natural science is urged. Pre dental students have the degree-in-absentia privilege.

If a student has a particular dental school in which he wishes to enroll, he should plan his program to meet the requirements of that school.

The following sequence of courses is recommended. The requirements pertaining to English composition, physical education, and speech in the freshman year are not indicated in the curriculum below. (See the University College section of the catalog.)

#### Freshman Program

The University College Program should include:

	Hours
Chem. 3-4-99—General and Qual. Analysis	8
Math. 9—Fundamentals of	3
Zool. 3-4—Principles of	7
Requirements and/or electives*	

#### Sophomore Program

Chemistry 113—Organic	4
Chemistry 117—Organic Laboratory	2
or	
Chemistry 201-202—Organic	6
and	
Chemistry 205—Organic Laboratory	2
or	
Chemistry 117—Organic Laboratory	2
Phys. 5-6—Introduction to	8
Zool. 107—Prin. of Heredity	3
Zool. 120—Comparative Vertebrate Anatomy	4
Zool. 311—General Bacteriology†	4
Requirements and/or electives (courses in English and Art 21 or 131 are recommended)**	

#### Junior Program

Phil. 109—Logic	3
or	
Phil. 110—Introd. to	3
Zool. 301—Comparative Vertebrate	
Anatomy—Mammalian‡	4

Zool. 305—Principles of Physiology	4
Requirements and/or electives (Art 21 suggested)**	
*See requirements in the University College section of the catalog.	
**See requirements for Bachelor of Arts or Bachelor of Science degree.	
†Suggested.	

#### PREPARATION IN ENGINEERING PHYSICS

In order to meet the growing demand from industrial concerns and from agencies such as AEC and NASA for engineer-oriented scientists who have a broad basic education in fundamental science with less emphasis upon specialized technical training, this curriculum offers the student a wide variety of opportunities particularly in industrial and governmental laboratories. It is assumed that the high school graduate entering this program has had four years of mathematics and two years of foreign language. This leads to the Bachelor of Science degree.

#### Freshman Program

	Hours
E.C. 1-Engr. Drawing	3
Math. 16 and 101—Anal. Geom. and Calculus	9
Phys. 113—General	4
Requirements and/or electives (Foreign language, if required)*	

#### Sophomore Program

Chem. 3-4-99—General and Qual. Anal.	8
Math. 102—Anal. Geom. and Calculus	4
Math. 215—Adv. Applied	3
Phys. 114-115—General	8
Phys. 120—Inter. Laboratory	1
Requirements and/or electives**	

#### Junior Program

Chem. E. 230—Prin. of Engr. Materials	3
Math. 314—Fourier Analysis	3
Phys. 201-202 Mechanics	6
Phys. 219-220—Elec. and Magnetism	6
Requirements and/or electives**	

#### Senior Program

E.E. 207—Electronic Devices	3
EE. 310—Semi-Conductors	3
Mech. E. 201—Kinematics	3
Phys. 349-350 Atomic and Nuclear	6
Phys. 361—Special Problems	2
Phys. 327-332—Adv. Laboratories— Choose one of each	4

Choose one of the following—

Phys. 308—X-rays	2
Phys. 310—Thermodynamics	3
Phys. 314—Spectroscopy	3
Phys. 365—Nuclear Reactor Theory	3

Choose two of the following—

Phys. 305—Light	3
Phys. 326—Acoustics	2
Phys. 352—Quantum Mechanics	3
Phys. 360—Solid State	3

Requirements and/or electives\*\*

\*See requirements in the University College section of catalog.

\*\*See requirements for the Bachelor of Science Degree.

## PREPARATION FOR FORESTRY

The curriculum outlined will prepare a student for admission to a forestry program in an approved school of forestry at the completion of the junior year. This will permit the student to receive the Bachelor of Science degree from Ohio University (all requirements in foreign language, humanities and social sciences and a total of 94 semester hours must be completed at Ohio University) at the conclusion of one summer and one academic year in a school of forestry, and the Master's degree from the school of forestry at the completion of the second academic year in that school. Ohio University has a cooperative arrangement with the School of Forestry of Duke University for this type of program and this may be extended to other schools of forestry.

### Freshman Program

	Hours
Bot. 3-4—General	8
Math. 3-14—College Algebra and Trigonometry	6
or	
Math. 15—Freshman	5
Requirements and/or electives (foreign language, if required, and humanities suggested)*	

### Sophomore Program

Bot. 117—Dendrology	3
Bot. 123—Introduction to Fungi	3
Chem. 3-4-99—General and Quant. Anal.	8
Econ. 11-12—Principles of	6
Math. 16—Anal. Geom. and Calc. (if not completed in freshman program)	5
Requirements and/or electives**	

### Junior Program

Bot. 205—Elem. Plant Physiology	4
Bot. 211—Plant Anatomy	3
Bot. 314—Developmental Plant Morphology	3
Bot. 203—Plant Ecology	4
or	
Bot. 221—Plant Pathology	4
Phys. 5—Introduction to	4
Zool. 3-4—Principles of	7
Requirements and/or electives**	

\*See requirements in the University College section of catalog.

\*\*See requirements for the Bachelor of Science degree.

## PREPARATION FOR GOVERNMENT FOREIGN SERVICE

Students desiring to prepare for the foreign service officer examinations, which are given yearly, are advised to acquire as broad an education as possible. Facility in written and spoken English, competency in a foreign language, and a good background in economics, history, government, business or public administration, are essential.

## PREPARATION FOR LAW

A student in the College of Arts and Sciences who plans to enter law school normally completes the specific requirements for the degree of Bachelor of Arts. No special curriculum is prescribed. The prelaw student may complete a major in the area of his principal interest. He is advised to select courses from as many of the following as possible: English composition and literature and American literature; history, with a preference for English and American; government; economics; sociology; at least one laboratory science and an additional advanced course is advised; mathematics; philosophy; ethics; logic; accounting; psychology; and a foreign language, preferably Latin. Courses in speech and training in expression, as well as activities that develop the capacity for independent thought and action, are recommended.

The Ohio Supreme Court has ruled that a student entering law school must be able to show that he possesses an undergraduate degree from an approved college if he wishes to take the Ohio Bar Examination. Law schools in the state of Ohio require the degree of all entering students regardless of the state in which they plan to take the bar examination.

The degree-in-absentia privilege is available to students who do not plan to seek admission to an Ohio law school. Students who have completed 94 semester hours at Ohio University with a point-hour ratio of 2.0 or above, on all hours attempted, and have satisfied the requirements for the degree of Bachelor of Arts or Bachelor of Science (including University College requirements) may obtain the degree after completing a full year's work of the quality prescribed for the bachelor's degree at Ohio University in an accredited school of law, including advancement, without condition, to the second year of law school. Prior to entering the school of law, the student must secure a statement in writing from the dean giving the senior-in-absentia privilege.

## PREPARATION FOR MEDICAL TECHNOLOGY

Preparation in medical technology trains students in laboratory methods used in hospitals, physicians' offices, public health bureaus, and other laboratories concerned with medical diagnosis and investigation.

Technologists who wish to be recognized by the American Society of Clinical Pathologists and entitled to use the initials, *M.T.*, must have had a minimum of 94 semester hours of work in a college or university recognized by the regional accrediting association, and a year's training in an approved school of medical technology.

The Ohio University—Mount Carmel Hospital Affiliated Training for Medical Technologists fulfills these requirements and affords the student an opportunity to earn the bachelor's degree. After completing six semesters (a minimum of 94 semester hours, with a point-hour ratio of 2.0 or above in all hours attempted, including the major, and with all area requirements fulfilled) at Ohio University, the prospective technologist secures a statement of approval from the dean of the College of Arts and Sciences to complete the remaining work off campus, and while still registered in the University, prospective technologists spend 12 months in residence at Mount Carmel Hospital, Columbus, Ohio. Upon satisfactory completion of the University and hospital training requirements, the student is eligible to receive from Ohio University the degree of Bachelor of Science and to take the qualifying examination given by the Board of Registry of the American Society of Clinical Pathologists for the professional designation of Medical Technologist. Credit toward the degree for the hospital training program is extended only in case all basic science courses which are required for admission to the Mount Carmel Hospital affiliated training program are completed previous to the hospital residence.

Approval may occasionally be granted for completion of the hospital training at hospitals other than Mount Carmel if such hospitals have approved programs in Medical Technology and if, for reasons of location or other factors, this would better meet the needs of the student.

The W. K. Kellogg Foundation of Battle Creek, Michigan, has granted the University the sum of \$4,000 to be used as a loan fund for students during their year at Mount Carmel Hospital. Application for aid is filed with the chairman of the Department of Zoology. Expenses to be met during the year in Columbus are room rent and a small sum for books and laboratory gowns. No fees are charged by Mount

Carmel Hospital, nor does it provide remuneration, except that it furnishes board.

The requirements pertaining to English, physical education, and speech in the freshman year are not indicated in the curriculum below. (See the University College section of the catalog.)

#### Freshman Program

The University College program should include:	Hours
Chem. 3-4-99—General and Qual. Analysis .....	8
Math. 3—College Algebra .....	3
or	
Math. 9—Fundamentals of .....	3
Zoology 3-4—Principles of .....	7
Requirements and/or electives*	

#### Sophomore Program

Chem. 107—Quant. Analysis .....	4
Chem. 113—Organic .....	4
Zool. 107—Principles of Heredity .....	3
Zool. 121—Elements of Anatomy .....	3
Zool. 134—Human Physiology .....	3
Requirements and/or electives**	

#### Junior Program

Zool. 225—Animal Microtechnic .....	1
Zool. 304—Histology .....	4
Zool. 309—Physiological Chemistry .....	4
Zool. 311—General Bacteriology .....	4
Zool. 312—Pathogenic Bacteriology .....	4
Zool. 316—Animal Parasites .....	4
Zool. 336—Biological Chemistry Laboratory .....	2
Requirements and/or electives**	

#### Senior Program

Med. Tech. 291—Urinalysis .....	3
Med. Tech. 292—Hematology .....	8
Med. Tech. 293—Bacteriology, etc. ....	10
Med. Tech. 294—Chemistry .....	9
Med. Tech. 295—Histologic Technic .....	2
Med. Tech. 296—Basal Metabolism, and Electrocardiography, and Radioisotopes .....	1

\*See requirements in the University College section of the catalog.

\*\*See requirements for the Bachelor of Science degree.

## PREPARATION FOR MEDICINE

Most medical colleges require their prospective students to spend from six to eight semesters in undergraduate preparation. A number of medical colleges give preference to holders of a bachelor's degree, and some require the degree for admission.

For most colleges the requirements for admission include general chemistry, organic chemistry, physics, zoology, comparative anatomy, embryology, and English. Courses in fine arts, government, history, economics, sociology, philosophy, and literature are strongly advised. A year's course in mathematics (Math. 9-10 or 15-16) is required by some and advised by most schools. A student who plans to complete only three years at Ohio University is advised to meet the degree requirements so as to be eligible for the degree-in-absentia privilege.

No specific area as far as the major is concerned is required by Ohio University in undergraduate preparation for medicine. The major may vary with the medical school which the student wishes to attend. In some cases a dual major may be advised.

The following sequence of courses is recommended. The requirements pertaining to English composition, physical education, and speech are not indicated in the curriculum below. (See the University College section of the catalog.) If the student has a particular medical school in which he wishes to enroll, he should plan his program to meet the specific requirements of that school.

#### Freshman Program

The University College program should include:

	Hours
Chem. 3-4-99—General and Qual. Analysis .....	8
Math. 9-10—Fundamentals of .....	6
or	
Math. 15-16—Fresh., Anal. Geom. and Calc. ....	10
Zool. 3-4—Principles of .....	7
Greek 27—Greek words in English .....	2
Requirements and/or electives a student having a foreign language requirement is advised to register for language)*	

#### Sophomore Program

Chem. 107—Quant. Analysis .....	4
Gk. 27—Greek Words in English .....	2
(If not taken in the freshman year)	
Phil. 109—Logic .....	3
or	
Phil. 110—Introduction to Philosophy .....	3
Zool. 107—Principles of Heredity .....	3
Zool. 102—Comparative Vertebrate Anatomy .....	4
Requirements and/or electives (course in English and Fine Arts 17-18 are recommended)**	

#### Junior Program

Chem. 113—Organic .....	4
Chem. 117—Organic Laboratory .....	2
or	
Chem. 201-202—Organic .....	6
Chem. 205—Organic Laboratory .....	2
Physics 5, 6 Introduction to .....	8
Requirements and/or electives**	

#### Senior Program

Chem. 311—Physical*** .....	3
Zool. 301—Comparative Vertebrate Anatomy—Mammalian† .....	4
Zool. 302—Vertebrate Embryology† .....	4
Zool. 305—Principles of Physiology† .....	4
Zool. 311—General Bacteriology*** .....	4
Requirements and/or electives**	

\*See requirements in the University College section of the catalog.

\*\*See requirements for the Bachelor of Arts or the Bachelor of Science degree.

\*\*\*Suggested.

†Students leaving at the end of the third year should elect this the third year.

### PREPARATION FOR NURSING

Ohio University does not have a school of nursing; however, students interested in nursing can obtain the Bachelor of Arts or the Bachelor of Science degree from Ohio

University and then complete nurses training in an approved school of nursing. In many cases the time required for the hospital training is shortened as a result of the student entering the program with a bachelor's degree.

A recommended alternative is the completion of two years of prescribed college work at Ohio University and transfer to a collegiate school of nursing which grants the Bachelor of Science in Nursing degree upon completion of the program. The professional program in the collegiate school of nursing requires 32 months for completion, including vacation periods.

A student who has completed a hospital school of nursing program and wishes to enroll at Ohio University for a degree in the College of Arts and Sciences will be granted a limited amount of credit toward the degree, following a review of her record by the University Examiner and the dean of the College.

The following curriculum includes courses which provide background for a nursing program, and will lead to the completion of the bachelor's degree at Ohio University. If the first two years of the program are completed, a student will be prepared for admission to a collegiate school of nursing.

#### Freshman Program

The University College Program should include:

	Hours
Chem. 3-4-99—General and Qual. Analysis .....	8
Psych. 1—General .....	3
Psych. 71—Educational .....	3
Zool. 3-4—Principles of .....	7
Requirements and/or electives*	

#### Sophomore Program

Chem. 113—Organic .....	4
Chem. 117—Organic Laboratory .....	2
Eng. 101, 102—Eng. Literature .....	
or	
Eng. 111, 112—Chief American Writers .....	3-6

H. Ec. 1-2—Foods, Nutrition and Meal Planning .....	6
Soc. 101—Principles of .....	3
Zool. 107—Principles of Heredity .....	3
Zool. 121—Elements of Anatomy .....	3
Zool. 311—General Bacteriology .....	4
Requirements and/or electives**	

#### Junior Program

Phil. 109—Logic .....	3
or	
Phil. 110—Introduction to .....	3
Zool. 305—Principles of Physiology .....	4
Zool. 312—Pathogenic Bacteriology .....	4
Requirements and/or electives**	

#### Senior Program

Requirements and/or electives**	
*See requirements in the University College section of the catalog.	
**See requirements for the Bachelor of Arts or the Bachelor of Science degree.	

## PREPARATION FOR OCCUPATIONAL THERAPY

Colleges offering programs in occupational therapy require two years of college work in preparation for the two years of professional work leading to the degree. The first two years may be taken at Ohio University, after which transfer can be made to another institution where the work will be completed and the degree conferred.

The first two years of college should include English 3-4 and six hours of literature; Chem. 3-4, 99, or Physics 5-6; physical education; psychology, 6 hours; sociology, 6 hours; Zoology 3-4 and 107. The remainder of the credit to complete the minimum of 64 hours may be elected from education, foreign language, science, etc. The particular requirements of the school to which the student may wish to transfer should be followed in planning the program at Ohio University.

Further information relative to requirements and the profession of Occupational Therapy may be obtained by writing the American Occupational Therapy Association, 250 West 57th Street, New York 19, N.Y.

## PREPARATION FOR OPTOMETRY

The requirements for admission to schools of optometry are not uniform. A minimum of 60 semester hours exclusive of military science or physical education is required. The following suggested curriculum will meet the admission requirements for a collegiate program and consequently of most independent schools of optometry.

### Freshman Program

	Hours
Chem. 3-4-99—General and Qual. Analysis .....	8
Eng. 3-4—Composition .....	6
For. Language 1-2—Beginning .....	8
or	
For. Language 101-102—Intermediate .....	8
Math. 15-16—Fresh., Anal. Geom., and Calc. ....	10
Physical Education .....	2
Speech 1 .....	1

### Sophomore Program

Chem. 113—Organic .....	4
Chem. 117—Organic Laboratory .....	2
For. Lang. 101-102—Intermediate .....	8
(if not taken in Freshman Program)	
Humanities .....	6-9
Phys. 5, 6—Introduction to .....	8
Social Science .....	6-9
Zool. 3-4—Principles of .....	7

Further information relative to requirements and the profession of optometry may be obtained by writing to the American Optometric Association, Department of

Public Information, 4030 Chouteau Avenue, St. Louis 10, Missouri.

## PREPARATION FOR PHARMACY

Most schools of pharmacy require 60 semester hours of academic credit, exclusive of physical education and military science, for admission. The following program will meet such requirements.

### Freshman Program

	Hours
Bot. 3—General .....	3
Chem. 3-4-99—General and Qual. Analysis .....	8
Eng. 3-4 or 7—Composition .....	3-6
Math. 9—Fundamentals and .....	
Math 14—Trigonometry .....	6
or	
Math. 15—Freshman .....	5
Physical Education .....	2
Social Science .....	3-6
Speech 1 .....	1
Zool. 3-4—Principles of .....	7

### Sophomore Program

Chem. 201-202—Organic .....	6
Chem. 205—Organic Laboratory .....	2
Econ. 11-12 .....	
or	
Econ. 101-102—Principles of .....	6
Phys. 5-6—Introduction to .....	8
Humanities and/or social science .....	

## PREPARATION FOR PHYSICAL THERAPY

The following program, extending over a period of three years at Ohio University, is recommended to those students who wish to enter the field of physical therapy. Upon completion of 94 semester hours, if a scholastic average of 2.0 or better on all hours attempted has been maintained, the student is eligible for admission to a school of physical therapy fully accredited by the American Medical Association. Upon satisfactory completion of the three year program at Ohio University, including degree requirements, and the course in physical therapy, Ohio University will award the student the bachelor's degree.

### Freshman Program

	Hours
Chem. 3-4-99—General and Qual. Analysis .....	8
Math. 9—Fundamentals of .....	3
Psych. 1—General .....	3

Zool. 3-4—Principles of .....

Requirements and/or electives (a course in swimming is advised for the physical education requirement)\*

### Sophomore Program

Psych. 173—Child .....	3
Soc. 101—Principles of .....	3
Zool. 133—Anatomy and Kinesiology .....	4
Zool. 134—Human Physiology .....	3
Zool. 107—Principles of Heredity .....	3
Zool. 241—Elementary Bacteriology .....	4

Requirements and/or electives (Psych. 71, Educational is advised)\*\*

<b>Junior Program</b>		<b>Hours</b>
Phil. 109—Logic	.....	3
or		
Phil. 110—Introd. to	.....	3
Phys. 5-6—Introd. to	.....	8
Speech 195—Introduction to Speech Disorders	.....	3
Requirements and/or electives (activity courses in physical education, Phys. Educ. 102, and Sociology 204 are advised)**		

\*See requirements in the University College section of the catalog.  
\*\*See requirements for the Bachelor of Arts or the Bachelor of Science degree.

## PREPARATION FOR PHYSICS TECHNOLOGY

The B.S. degree with a major in physics for preparation in physics technology allows the maximum undergraduate training in physics. This curriculum affords many opportunities for those students who plan to engage in physics as a career in industry or government laboratories as well as for those who wish to prepare for the M.S. or Ph.D. degree. This program can be completed in eight semesters if the student has had four years of mathematics and two years of a foreign language in high school.

### Freshman Program

		Hours
Math. 16 and 101—Anal. Geom. and Calculus	....	9
Phys. 113—General	.....	4
Requirements, and/or electives (foreign language, if required)*		

### Sophomore Program

		Hours
Math. 102—Anal. Geom. and Calculus	.....	4
Math. 215—Adv. Applied	.....	3
Phys. 114-115—General	.....	7
Phys. 120—Intermed. Laboratory	.....	1
Requirements and/or electives**		

### Junior Program

		Hours
Math. 314—Fourier Anal.	.....	3
Phys. 201-202—Mechanics	.....	6
Phys. 219-220—Electricity and Magnetism	.....	6
Requirements and/or electives**		

### Senior Program

		Hours
Phys. 349-350—Atomic and Nuclear	.....	6
Choose one or more of the following:		
Phys. 308—X-rays or Crystal Phys.	.....	2
Phys. 310—Thermodynamics	.....	3
Phys. 314—Spectroscopy	.....	3
Phys. 365—Nuclear Reactor Theory	.....	3
Choose one of the following:		
Phys. 305—Optics	.....	3
Phys. 326—Acoustics	.....	2
Phys. 352—Quantum Mechanics	.....	3
Phys. 360—Solid State	.....	3
Phys. 327-332—Adv. Laboratories (2 hours each semester)	.....	4
Requirements and/or electives**		

\*See requirements in the University College section of the catalog.  
\*\*See requirements for the Bachelor of Science degree.

## PREPARATION FOR SANITARIANS

A four year curriculum leading to the Bachelor of Science degree with a major in Zoology (see general requirements under

Zoology). The program prepares students for work as public health sanitarians. Technical knowledge acquired can be applied to solve problems of a sanitary nature and to carry out procedures for the control of man's environment which affect his health.

### Freshman Program

		Hours
Chem. 3-4-99—General and Qual. Analysis	.....	8
Math. 9-10—Fundamentals of	.....	6
or		
Math. 15-16—Fresh., Anal. Geom., and Calc.	....	10
Zool. 3-4—Principles of	.....	7
Requirements and/or electives (students having a foreign language requirement are advised to register for a language) Psych. 1 suggested*		

### Sophomore Program

		Hours
Chem. 113—Organic	.....	4
Chem. 117—Organic Laboratory	.....	2
or		
Chem. 201-202—Organic	.....	6
Chem. 205—Organic Laboratory	.....	2
Zool. 107—Principles of Heredity	.....	3
Zool. 121—Elements of Anatomy	.....	3
Requirements and/or electives (Gov't. 1, 2 and Eng. 101, 102 or 111, 112 suggested)**		

### Junior Program

		Hours
Bot. 3-4—General	.....	6
Physics 5-6—Introduction to	.....	8
Zool. 219—Entomology	.....	4
Zool. 311—General Bacteriology	.....	4
Requirements and/or electives (Agriculture 1, 2, Human Relations 303, Sociol. 101 suggested)**		

### Senior Program

		Hours
Chem. 107—Quantitative Analysis	.....	4
Zool. 305—Principles of Physiology	.....	4
Zool. 312—Pathogenic Bacteriology	.....	4
Zool. 316—Animal Parasites	.....	4
Zool. 317—Advanced General Bacteriology	.....	4
Requirements and/or electives**		

\*See requirements in the University College section of the catalog.

\*\*See requirements for the Bachelor of Science degree.

## PREPARATION FOR SOCIAL WORK

The Department of Zoology is a member of the Council on Social Work Education, and offers a limited sequence of courses for preprofessional training for social work in conjunction with a major in sociology. These courses also offer students preparing for medicine, law, teaching, and nursing an opportunity to become acquainted with the social services which they will encounter frequently in their professional activities.

At present there is a national need for professionally trained social workers. Generous financial assistance is available to enable qualified students to obtain a professional education at one of the many accredited graduate schools of social work throughout the nation. Students intending to pursue a career in social work should plan to continue their preparation beyond the undergraduate level, and should in-

quire regarding scholarships at the institution of their choice.

(1) *Preparation for Professional Training.* The undergraduate foundation for professional training at graduate schools of social work is a broad liberal arts education, with a concentration on studies in the social, psychological, and biological sciences. Students should elect sociology as their major field, with courses in social work to be chosen in consultation with their department adviser. Students majoring in other fields are encouraged to register for courses in preprofessional social work (see *Sociology* in Courses of Instruction section of the catalog), and to consult with the department adviser concerning professional opportunities.

(2) *Preparation for Employment.* Some students will wish to seek employment with welfare agencies immediately upon completion of the Bachelor of Arts degree, and should meet the requirements outlined under *Sociology* in the Courses of Instruction section of the catalog. There are various positions in social agencies for which graduate education is not required. The duties of these positions can be better performed by the graduate who has had some orientation to social work, through the recommended preprofessional courses.

## PREPARATION FOR TEACHING

Students earning either a Bachelor of Arts or Bachelor of Science degree in the College of Arts and Sciences may meet the special requirements in education for certification to teach in the secondary schools in Ohio by completing the following:

	Hours
Psych. 71—Educational	3
Ed. 130—Secondary Education or	
Ed. 125—The Purposes and Practices of Education	3
Ed. 229—Curriculum and Teaching Practices	4
Ed. 227—Field Experience	1
A methods course in major	2-3
Ed. 281—Student Teaching in the Secondary Schools	7-12
Ed. 288—Student Teaching Seminar	1-3

All students must meet the following general education requirements for certification in Ohio, as set forth by the State Department of Education in *Laws and Regulations Governing the Certification of Teachers*, effective January 1, 1963:

	Hours
General Education	..... 30
A. Science and/or Mathematics	..... 6
B. Social Studies (excluding psychology)	..... 6
C. Literature and/or Language	..... 6
D. Fine and/or Applied Arts	..... 6
E. Religion and/or Philosophy	..... 6
Credit on either or both (D) and (E)	..... 6
F. Excess credit in any or all areas above	..... 6
Careful selection of courses in meeting the College of Arts and Sciences area requirements will enable the student to fulfill all of the above general education requirements, without exceeding the hours required for any requirement in the College of Arts and Sciences.	

A prerequisite to certification is the satisfactory fulfillment of the Program of Selective Admission and Retention in Teacher Education. This program includes the following:

- A. Admission to teacher education: Application is made in the Personnel Services in Education Office, McCracken Hall, during the semester when advancement from University College is expected.
- B. Admission to Junior Standing in Teacher Education: Application is made in the Personnel Services in Education Office, McCracken Hall, during the second semester, sophomore year.
- C. Admission to Student Teaching: Application is made in the Office of Student Teaching, McCracken Hall, before Christmas vacation of the year prior to the year when the student teaching is to be done.

Each student must present one comprehensive teaching field (includes Biological Science comprehensive, Social Studies comprehensive, Physical Science comprehensive and English comprehensive) or two teaching fields.

All facets of this program became effective with the 1963-1964 freshman class.

## PREPARATION FOR THEOLOGY

The American Association of Theological Schools recommends that a student planning to enter a theological seminary include in his undergraduate studies the following subjects: English (6 semesters), History (3 semesters), Philosophy (3 semesters), Natural Science (2 semesters), Social Science (6 semesters), Foreign Language (4 semesters selected from Latin, Greek, Hebrew, German, and French), and Religion (3 semesters). The Association advises the pre-seminary student to major in English, philosophy, or history. The student should also check the entrance requirements of the theological seminary of his choice and plan his course to meet these requirements, as well

as the requirements for the Bachelor of Arts degree at Ohio University.

### PREPARATION FOR VETERINARY MEDICINE

Schools of veterinary medicine require 60 semester hours of academic credit, exclusive of physical education and military science, for admission. The following program will meet such requirements.

#### Freshman Program

	Hours
Chem. 3-4-99—General and Qual. Analysis	8
Eng. 3-4—Composition	6
Math. 9-10—Fundamentals of or	6
Math. 15-16—Freshman, Anal. Geom and Calc.	10
Physical Education	2
Speech 1—Fundamentals of	1
Zool. 3-4—Principles of	7
Humanities and/or social sciences	3-5

#### Sophomore Program

Chem. 113—Organic	4
Chem. 117—Organic Laboratory	2
Phys. 5-6—Introduction to	8
Zool. 107—Principles of Heredity	3
Zool. 241—Elementary Bacteriology or	4
Zool. 311—General Bacteriology	4
Humanities and/or social sciences to make a total of 32 hours	

Veterinary schools often recommend, and some require, three years of college work as preparation for veterinary medicine. In this case, the student is advised to include Zool. 302, Vertebrate Embryology, and Zool. 309, Physiological Chemistry, as part of the program for the third year.

### PREPARATION FOR WATER RESOURCES

This curriculum is recommended for those students in the College of Arts and Sciences who wish to specialize in the investigation of surface and ground-water supplies. The student will major in geology, with additional courses in mathematics, chemistry, physics, and civil engineering.

Students should enter the program as freshmen in order to complete the curriculum in four years. The following sequence of courses is recommended as a minimum:

#### Freshman Program

	Hours
Geol. 3-4—Elements of	6
Chem. 3-4-99—General and Qual. Analysis	8
Math. 15-16—Freshman Anal. Geom. and Calc.	10

Requirements and/or electives\*

#### Sophomore Program

Geol. 111-112—Historical	6
Geol. 131-132—Mineralogy	6

Math. 101—Analytical Geometry and Calculus.. 9  
Requirements and/or electives\*\*

#### Junior Program

C.E. 120-121—Mechanics and Dynamics .....	6
Geol. 224—Glacial Geology .....	3
Geol. 241—Petrology .....	3
Math. 102—Analytical Geometry and Calculus ..	4
Physics 113-114—General .....	8

Requirements and/or electives\*\*

#### Senior Program

C.E. 224—Fluid Mechanics .....	2
C.E. 241—Hydrology .....	3
Geol. 313—Prin. of Sedimentation .....	3
Geol. 314—Principles of Stratigraphy .....	3
Geol. 362—Structural .....	3
Geol. 376—Ground Water .....	3

Requirements and/or electives\*\*

Chem. 107, C.E. 10, Geol. 223, 282, and courses in Economics recommended.

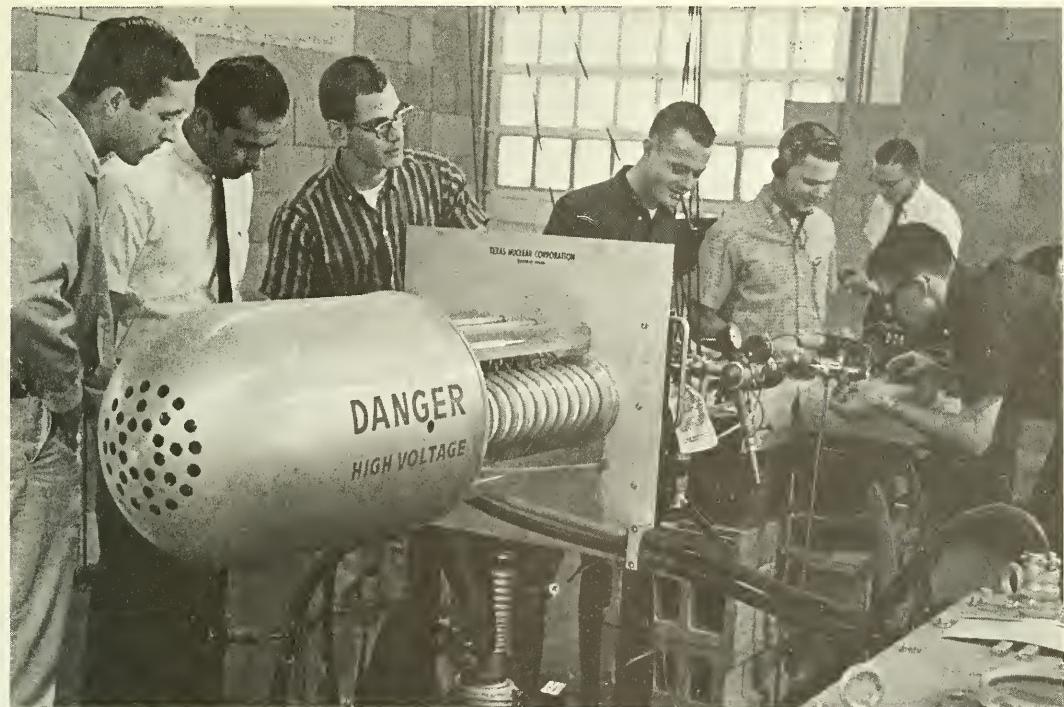
\*See requirements in the University College section of the catalog.

\*\*See requirements for the Bachelor of Arts or the Bachelor of Science degree.

### PREPARATION FOR WORK IN JUVENILE DELINQUENCY AND CRIMINOLOGY

Police and court services, and the supervision and training of juvenile delinquents, young offenders, and criminals, offer career positions for college graduates with special training in these fields. An increasing number of positions are open to sociologists in administration and research in penal institutions and probation and parole systems. Sociologists have served as chairmen of federal and state parole boards, wardens of penitentiaries, superintendents of reformatories and juvenile training schools, prison counselors, staff members of diagnostic clinics, and actuaries for parole boards.

Sociologists make a distinctive contribution to the field of corrections through scientific research in prison administration, criminological statistics, prison culture, and correctional treatment. Research training is based upon an undergraduate curriculum such as that described under Sociology in the Courses of Instruction section of the catalog, with related work in government and psychology, but requires, both in planning and execution, a level of professional training beyond the Bachelor of Arts degree. Students interested in careers in the field should plan to take advantage of the financial assistance available to them at most universities on the basis of superior scholarship for the purpose of obtaining graduate degrees.



Research programs during fiscal year 1965-66 totaled over one million dollars. Financed by federal agencies, private corporations, Ohio University and the Ohio University Fund, Inc., research support has increased 100 percent since 1962 and is expected to grow as a result of enhanced research capabilities. A \$450,000 Van de Graaff accelerator, planned for the fall of 1967, will expand facilities for nuclear research in physics.



Dr. John Cady, Distinguished Professor of History, is a well-known authority on Southeast Asia. Shown here delivering a lecture in Bentley Hall, Dr. Cady is one of nine faculty members who have been designated Distinguished Professors through the generous gift of Mr. and Mrs. Edwin L. Kennedy, alumni of the University. The award provides for a cash stipend and a six months' leave of absence.



*The first building on the new \$25 million Science and Engineering campus is nearly completed. Expected to become one of the great science centers in the country, the 60-acre complex of classrooms, laboratories and research buildings will attract approximately 3000 additional students to the Athens campus.*



# The College of BUSINESS ADMINISTRATION

Harry F. Evarts, *Dean*

William A. Day, *Assistant Dean*

Richard W. French, *Assistant Dean*

Accounting  
Advertising-Marketing  
Agriculture  
Aviation  
Business Communications  
Business Law  
Economics  
Finance  
Management  
Statistics

THE SCHOOL OF JOURNALISM

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COLLEGE OF BUSINESS ADMINISTRATION

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President, Rankin, Johnson & Company

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Development Corporation

Samuel F. Downer, '40  
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LTV Aerospace Corporation

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The Standard Oil Company of Ohio

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Chairman of the Board and President  
Allegheny Ludlum Steel Corporation

Russell P. Herrold, '16  
Chairman of the Board  
First Trust & Savings Bank

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President, Zanesville Publishing Company

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E. F. Hutton & Company

Thomas B. McCabe, Jr.  
Vice President, Scott Paper Company

J. Warren McClure, '40  
Publisher, The Burlington Free Press

Donald C. Power  
Chairman of the Board  
General Telephone & Electronics  
Corporation

George Putnam, Jr.  
President, The Putnam Management  
Company, Inc.

William S. Sneath  
Treasurer and Vice President  
Union Carbide Corporation

Roger P. Sonnabend  
President, Hotel Corporation  
of America

Julius Stern  
Chairman of the Board  
Wood County Bank

Albert J. Weatherhead, III  
Vice President, The Weatherhead  
Company

Clyde E. Williams  
President, Clyde Williams & Company

# THE COLLEGE OF BUSINESS ADMINISTRATION

Consistent with its character and history as a pioneer educational institution, Ohio University inaugurated courses in business administration in 1893, at a time when few colleges and universities offered instruction in this area. As the conception of collegiate training for business broadened, the offerings were steadily expanded. Today the College of Business Administration offers comprehensive programs of study in business which lead to the degree of Bachelor of Business Administration. The College is accredited by and is a member of the American Association of Collegiate Schools of Business.

The College includes the School of Journalism (described in the next section), which offers theoretical and practical programs of study leading to the degree of Bachelor of Science in Journalism.

It is as essential to teach students the art of living as it is to provide them with professional business training. Further, it is a duty of every college graduate to participate in, and, if possible, to assume responsibility for intelligent leadership in civic, governmental, professional, and social activities of life. Every student in the College of Business Administration, therefore, is required to take some courses offered by the other colleges of the University in order to widen his scope of knowledge and interest.

Through the use of the elective hours in programs of study in the College of Business Administration, a student may emphasize a special interest by electing courses offered by any other college of the University. Such courses are open to students in the College of Business Administration on the same basis as they are open to students in those colleges. The College of Business Administration, in turn, serves students enrolled in the other colleges of the University and admits them to its courses on the same basis as students registered in the College of Business Administration.

The mutual relationship between the colleges whereby a student in one college may take courses in another gives a breadth of combinations in education which only a university can offer. The College of Engineering and Technology and the College of Business Administration cooperate in offer-

ing industrial technology or an industrial option in mechanical engineering. However, it is impossible to set up predetermined curricula for each and every possible combination. For this reason, the College of Business Administration stresses its faculty advisory system for students. Each student may choose as an adviser a member of the College of Business Administration faculty who is a specialist in the student's field of interest. Student and adviser together then mold the outlines of courses into an integrated program of study best suited for the student's individual needs.

A candidate for the degree of Bachelor of Business Administration must complete the general university requirements for graduation which include a minimum of 128 semester hours with a point-hour ratio of 2.0 (C) on all hours attempted, but including only the final hours and points in repeated courses. This point-hour requirement applies to his total record and to his courses, except aviation and journalism, taken in the College. For a student with transferred credit, this rule applies to both his cumulative record, which includes transferred credits, and to his Ohio University record exclusive of transferred credits.

## BACHELOR OF BUSINESS ADMINISTRATION

All students following programs of study leading to the degree of Bachelor of Business Administration must take the subjects indicated in the freshman, sophomore, junior, and senior programs of the curriculum outline. The sequence of the courses introduces a logical development of the student's knowledge but it can be varied to fit his or her particular interest, provided the prerequisites are observed.

## FIELDS OF SPECIALIZATION

It is felt that a student who follows a program of studies leading to the degree of Bachelor of Business Administration, has automatically chosen a field of concentration. Further concentration by way of a major is not required. Some of the fields that may be stressed are listed.

**ACCOUNTING**

- General accounting
- Administrative accounting
- Preparation for public (C.P.A.) accounting profession

**AGRICULTURE****MARKETING**

- Advertising
- Industrial
- International
- Retailing
- Selling and sales management

**ECONOMICS**

- Economic history
- Economic theory
- Business cycles
- General
- International
- Labor relations
- Public utilities

**FINANCE**

- Banking
- Business finance
- Investments

**MANAGEMENT**

- Personnel
- Production

**PREPARATION FOR LAW SCHOOL****STATISTICS**

## CURRICULUM IN BUSINESS ADMINISTRATION

The university requirements pertaining to English composition, physical education, and speech are not indicated in the curriculum below. See UNIVERSITY COLLEGE.

**Freshman Program**

The freshman program will be determined largely by the requirements of the University College.

The University College Program should include:

Hours

**First Semester**

- |   |   |
|---|---|
| Ec. 11—Principles of Economics .....            | 3 |
| Math. 11—Fundamental Concepts of Calculus ..... | 3 |
| Phil. 1—Principles of Reasoning* .....          | 3 |

**Second Semester**

- |   |   |
|---|---|
| Ec. 12—Principles of Economics .....            | 3 |
| Math. 12—Fundamental Concepts of Calculus ..... | 3 |
| Phil. 2—Moral Philosophies* .....               | 3 |
| Speech 3—Public Speaking .....                  | 2 |

**Sophomore Program****First Semester**

- |  |   |
|--|---|
| Acct. 101—Managerial Accounting .....            | 3 |
| Mgt. 100—Quantitative Methods I .....            | 3 |
| Mgt. 110—Management** .....                      | 3 |
| Bus. Comm. 120—Business Communications I** ..... | 3 |

**Second Semester**

- |  |   |
|--|---|
| Acct. 102—Managerial Accounting .....    | 3 |
| Mgt. 120—Organizational Behavior** ..... | 3 |
| Stat. 155—Business Statistics .....      | 4 |
| Eng.—Literature** .....                  | 3 |

**Junior Program**

First Semester	
Bus. L. 255—Legal Environment of Business I** .....	3
Ec. 333—Economics of the Firm** .....	3
Fin. 221—Managerial Finance** .....	4
Bus. Comm. 220—Business Communications II** .....	3

Second Semester	
Mgt. 301—Production** .....	3
Mkt. 255—Marketing Principles** .....	4
Eng. 293—Advanced Composition** .....	3

**Senior Program**

First Semester	
Bus. L. 256—Legal Environment of Business II** .....	3
Ec. 350—National Income and Employment Analysis** .....	3

Second Semester	
Mgt. 380—Administrative Policy** .....	3
*Phil. 109, Logic, and Phil. 201, Ethics, may be substituted after the freshman year. **May be taken either semester.	

In addition to the above curriculum requirements, the student shall elect a *minimum of nine approved credit hours in each of two of the following non-business fields:*

Botany	*Mathematics
Chemistry	Modern Languages
Classical Languages	Physics
*English	*Philosophy
Fine Arts	Psychology
Geography	Sociology and Anthropology
Geology	
Government	*Speech
History	Zoology
Human Relations	

\*If English, mathematics, philosophy or speech is elected as a non-business field, the student must complete nine credit hours by taking courses other than the specific non-business courses required in the degree curricula.

To complete the minimum 128 semester hours for the Bachelor of Business Administration degree, *Twenty-four approved semester hours* may be elected by the student from courses in business, economics, engineering, general studies, journalism, fields listed in the non-business group, R.O.T.C. (except summer camps), and those required for teacher certification.

**PREPARATION FOR LAW SCHOOL.**  
A student in the College of Business Administration who plans to enter law school should follow the Bachelor of Business Administration degree curriculum and also elect, with the approval of his adviser, courses in other fields, especially American government, American and English history, English, philosophy, speech and other theory courses in the College of Arts and Sciences except those courses which substantially duplicate material contained in the typical law school curriculum.

The Ohio Supreme Court in its regulations governing the admission to the practice of law in Ohio provides that a student entering law school must be able to show that he possesses an undergraduate degree from an approved college if he wishes to take the Ohio Bar Examination. Law schools in the state of Ohio have supplemented this Supreme Court rule by requiring the degree of *all* entering students, regardless of the state in which they plan to take the bar examination.

However, for the benefit of those students who do not plan to take the Ohio Bar Examination and who do not plan to seek admission to an Ohio law school, a degree-in-absentia program is available as described in the following statement.

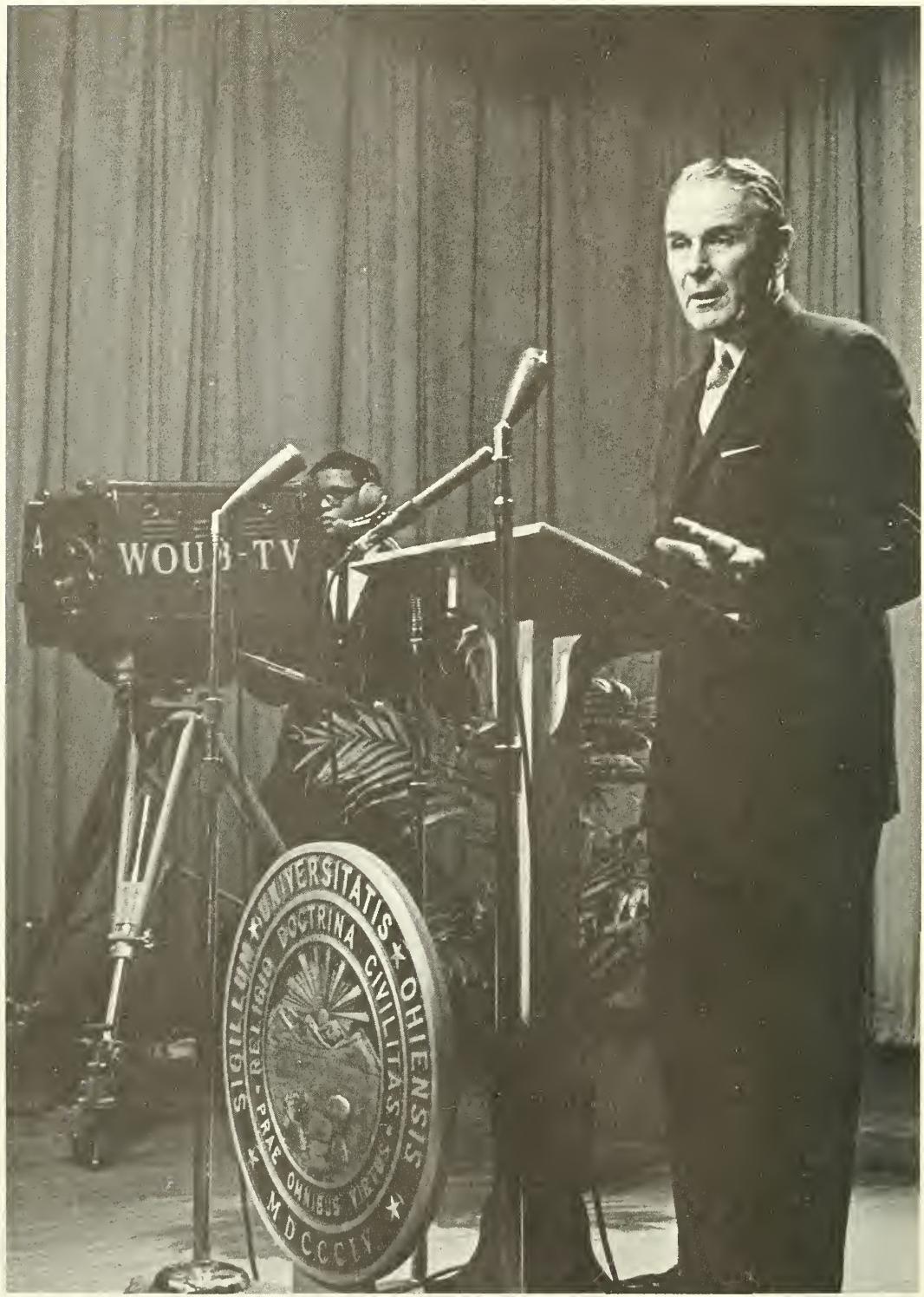
A student who desires to enter a school of law located outside Ohio at the end of three years of college work and receive the Bachelor of Business Administration degree from Ohio University after completing his first year in law school may do so provided the following conditions are met: the student has the written approval of the dean of the College of Business Administration; the requirements of the University College are met; a minimum of 98 semester hours, including the required courses in the Bachelor of Business Administration degree curriculum with the exception of Business Law 255-256, are completed with a point-hour ratio of 2.0 on all hours attempted; and a full year's work in an accredited law school is completed with an average equivalent to that prescribed for the bachelor's degree at Ohio University and the student is eligible for advancement without condition to the second year.

If there is any possibility that a student will desire to take the Ohio Bar Examination, he is urged to obtain his undergraduate degree before entering law school.

**PERSONNEL MANAGEMENT IN INDUSTRY.** The College of Business Administration has designed a field of specialization which will prepare the student for personnel management work either in industry or government service. Preparation in this field must be broadly based, and it is recommended that courses be selected on the advice and guidance of the faculty adviser from the offerings in the departments of Economics, Management, Statistics, Government, Human Relations, Psychology, and Sociology.

**AVIATION.** Specialized courses in aviation are offered to afford today's students an opportunity to better prepare themselves for a future in the Jet and Space Age. Since the airplane and its many by-products have a great impact on the political, economic, and social aspects of our society, a basic knowledge of aviation, including the possession of a pilot's license, could be a valuable asset to future professional and business men, educators, and administrators. One or more of the aviation courses might beneficially be incorporated into the programs of students preparing for any of these fields.

**INDUSTRIAL OPTION IN MECHANICAL ENGINEERING AND INDUSTRIAL TECHNOLOGY.** In recognition of the increasing need that executives in industry have a knowledge of and training in economics and business management, the College of Engineering and Technology, in cooperation with the College of Business Administration, offers two curricula, one leading to the degree of Bachelor of Science in Industrial Technology and the other leading to the degree of Bachelor of Science in Mechanical Engineering with an industrial option. These curricula are listed under the College of Engineering and Technology.



Through the medium of WOUB-TV, home viewers receive live broadcasts of talks by eminent University visitors, such as Kennedy lecturer General Maxwell D. Taylor. Now in its fourth season, WOUB-TV is the most powerful TV station in this area.

# THE SCHOOL OF JOURNALISM

Lorin J. Hortin, *Director*

Advertising-Management  
Magazine Journalism  
News Writing and Editing  
Public Relations  
Radio-Television News

## BACHELOR OF SCIENCE IN JOURNALISM

The Ohio University School of Journalism is accredited by the American Council on Education for Journalism. It is one of a limited number of accredited schools and departments of journalism in the United States. As such, it is one of the members of the American Association of Schools and Departments of Journalism.

Journalism today is a profession—like medicine, law, teaching, or engineering. It requires its practitioners to be culturally educated and professionally trained. Blending the liberal arts with professional courses, Ohio University journalism students take more than two-thirds of their courses outside the professional school.

Five sequences are offered, all leading to the degree of Bachelor of Science in Journalism: *Advertising-Management*, *Magazine Journalism*, *News Writing and Editing*, *Public Relations*, and *Radio-Television News*. Along with these sequences, several specialized study areas are possible—for example, scientific writing, religious journalism, or foreign correspondence. The master of science degree is also offered for work in journalism.

While working toward their degree, students serve on the staff of the *Athens Messenger*, an independently-owned daily newspaper. The city editor, managing editor, and advertising manager are faculty

members of the School of Journalism. The student staff members of the *Messenger* gather and write news, edit local and Associated Press copy, write headlines, and prepare advertising copy and layouts. This training prepares students to take and hold jobs immediately after graduation.

Practical experience is also available in the University News Bureau, in the Photography Department and in the journalism laboratories. Many students also add to their experience by helping edit the *Ohio University Post*, daily campus newspaper, the *Athena*, the University yearbook, and other campus publications.

In Radio-Television News, students get practical experience in preparing and broadcasting news over the University's radio and television stations. The United Press radio news teletype service is available for journalism students in this sequence.

**INTERNSHIP PROGRAM.** Consistent with its policy of combining classwork with practical training, the School of Journalism has inaugurated a Journalism Internship Program. Juniors or seniors who have ranked high in their courses are eligible for appointment as interns. The period of internship is ten weeks or more during the summer. The intern is provided with as varied experience in practical journalism as possible. The intern will be paid a moderate sum for his work and study. No credit will be granted for internship work itself. However, upon completion of the internship

period, a student is permitted to enroll the following semester in Journalism 370—Internship, 3 hours credit. The selection of the interns is made by the Director of the School of Journalism.

## CURRICULA AND REQUIREMENTS

Not more than 40 hours in Journalism, Photography, Advertising, and Radio-TV may be counted in the 124 hours required for graduation.

Journalism students must take a group of courses specifically selected to serve as a background for journalism. These courses should include at least 20 hours of courses numbered 200 and above in other social sciences, humanities, or natural sciences. With the approval of the director, limited adjustments may be made to permit a background for specialized reporting in the chosen field. Six hours of foreign language below 200 may be included in the 20 hours.

Non-journalism courses required of all students include:

	Hours
English Composition .....	6
Literature (above freshman) .....	6
Economics .....	6
Psychology .....	3
Sociology .....	3
Government .....	3
History .....	6
Speech .....	1-5
Foreign Languages or Humanities .....	6-8
Mathematics .....	0-6*
Natural Sciences .....	0-6*
Physical Education .....	2

\*Depending upon high school deficiency.

Other non-journalism courses are required, but they are not the same for all sequences. See individual sequences for listing.

## FRESHMAN PROGRAM

Freshmen should meet the requirements of the University and the University College in English Composition, Speech, Physical Education, and a year's work in each of two of the following groups: Humanities, Mathematics, Natural Sciences, and Social Sciences. In selecting the groups, the student must conform to the specific requirements based upon high school deficiencies, if he has any. He should plan his program for the freshman year to include the following courses:

Humanities—Six hours. (Foreign Language recommended.)

History—Six hours.

Psych. 1—General Psychology (3)

All Journalism students must be able to operate a typewriter by the touch system. Students without this proficiency must make special arrangements for typing instruction before the sophomore year.

Students preparing for Advertising-Management will find it advantageous to take Ec. 11-12—Principles of Economics (6) in their freshman year and may, if necessary, have the requirement in history delayed to permit scheduling of the economics courses.

If a student chooses to fulfill his group requirements with science, it is recommended that he take Biol. 1-2—The Living World (6), or Phys. Sci. 3, 4—The Physical World (6).

## ADVERTISING-MANAGEMENT

### Sophomore Program

	Hours
Advt. 155—Advertising Principles .....	3
Jour. 107—Newspaper Reporting .....	3
Jour. 146—Graphics of Communication .....	3
Students interested in Management will take in addition:	
Acct. 101-102—Managerial Accounting (6)	

### Junior Program

Jour. 217—Newspaper and Magazine Editing .....	3
Jour. 247—Newspaper Advertising and Layout .....	3
Advertising Students will take these courses:	
Jour. 309—Radio-TV Advertising and Management .....	3
Jour. 348—Advertising Production .....	2
Mkt. 255—Marketing Principles .....	2
Prereq. Ec. 12, or 102 .....	4
Management students will take these courses:	
Bus. L. 255—Legal Environment of Business I .....	3
Jour. 251—Contemporary Thought and Developments .....	3

### Senior Program

Jour. 277—Newspaper Advertising Practices .....	2
(each semester)	
Jour. 306—Newspaper and Communications Law .....	2
Jour. 343—Newspaper Management .....	2
Advertising students also will take Advt. 332—Copy Writing (2). Management students also will take Psych. 261—Industrial Psychology (3). Electives should include an advanced Economics course.	

## MAGAZINE JOURNALISM

### Sophomore Program

	Hours
Ec. 11-12—Principles of Economics .....	6
Eng. 101, 102—English Literature or Eng. 111, 112—Chief American Writers .....	6
Jour. 105—History of American Journalism .....	3
Jour. 107—Newspaper Reporting .....	3
Jour. 146—Graphics of Communication .....	3
Soc. 1—Intro. to Sociology .....	3

**Junior Program**

Eng. 290—Creative Writing .....	3
Jour. 111—Reporting Practice (2), or	
Jour. 370—Internship .....	3
Jour. 217—Newspaper and Magazine Editing .....	3
Jour. 230—Reviewing and Criticism .....	2
Jour. 251—Contemporary Thought and Developments .....	3
Jour. 329—Industrial and Business Magazines .....	2
Photog. 133—Basic News Photography .....	3

**Senior Program**

Jour. 306—Newspaper and Communications Law .....	2
Jour. 322—Feature and Magazine Writing .....	3
Jour. 323—Advanced Feature and Magazine Writing .....	2

**NEWS WRITING AND EDITING****Sophomore Program**

	Hours
Ec. 11-12—Principles of Economics .....	6
Jour. 105—History of American Journalism .....	3
Jour. 107—Newspaper Reporting .....	3
Jour. 146—Graphics of Communication .....	3
Radio-TV (2, 3 hours elective)	
Soc. 1—Intro. to Sociology .....	3

**Junior Program**

*Jour. 111—Reporting Practice .....	2
Jour. 217—Newspaper and Magazine Editing .....	3
Jour. 251—Contemporary Thought and Developments .....	3
Photog. 133—Basic News Photography .....	3

**Senior Program**

*Jour. 221—Editing Practice .....	2
Jour. 306—Newspaper and Communications Law .....	2
Jour. 307—Reporting of Public Affairs .....	2
Jour. 325—The Editorial Page .....	2
Jour. 343—Newspaper Management .....	2
*Jour. 370—Internship may be substituted for either. (3)	

**PUBLIC RELATIONS****Sophomore Program**

	Hours
Advt. 155—Advertising Principles .....	3
Ec. 11-12—Principles of Economics .....	6
Jour. 107—Newspaper Reporting .....	3
Jour. 146—Graphics of Communication .....	3
Soc. 1—Intro. to Sociology .....	3
Speech 3—Public Speaking .....	2

**Junior Program**

Jour. 217—Newspaper and Magazine Editing .....	3
Jour. 221—Editing Practice (2), or	
Jour. 370—Internship .....	3
Jour. 251—Contemporary Thought and Developments .....	3
Photog. 133—Basic News Photography .....	3
Psych. (200, or above, elective) .....	3
H. R. 303—Human Relations .....	3

**Senior Program**

Advt. 332—Copy Writing .....	2
Jour. 306—Newspaper and Communications Law .....	2
Jour. 327—Public Relations Principles .....	3
Jour. 328—Advanced Public Relations .....	3
Jour. 329—Industrial and Business Magazines .....	2
Psych. 336—Social Psychology .....	3
Soc. 336—Public Opinion and Mass Communications .....	3

The course in Human Relations and the advanced courses in psychology and sociology listed above are a partial fulfillment of the requirement that students must take at least 20 hours of courses numbered 200 and above in social sciences, humanities, or natural sciences.

**RADIO-TELEVISION NEWS****Sophomore Program**

	Hours
Ec. 11-12—Principles of Economics .....	6
Jour. 107—Newspaper Reporting .....	3
Jour. 280—Radio-TV News Writing and Editing .....	2
Photog. 133—Basic News Photography .....	3
Radio-TV 79—Introduction to Radio-TV .....	2
Radio-TV 110—Broadcast Production Techniques .....	3

**Junior Program**

Advt. 155—Advertising Principles .....	3
Jour. 307—Reporting of Public Affairs .....	2
Radio-TV 80—Broadcast Speech .....	2
Jour. 285—Radio-TV News Practice .....	2

**Senior Program**

Jour. 303—TV News Production .....	2
Jour. 304—Seminar in Broadcast News .....	2
Jour. 306—Newspaper and Communications Law .....	2
Jour. 309—Radio-TV Advertising and Management .....	3



Adolf A. Berle, Jr., Professor Emeritus of Law at Columbia University, discusses "Disarmament—The Shift From Arms to People" with students from the Ohio Plan. The Ohio Plan is a four-year program for undergraduates of superior ability, idealism and leadership potential in public affairs.



During the warm spring and fall months many small seminar classes move out to the College Green where, in the informal, peaceful atmosphere, ideas are exchanged and discussed.

# The College of EDUCATION

Gilford W. Crowell, *Dean*

Russell A. Milliken, *Associate Dean*

Fred B. Dressel, *Assistant Dean*

## ELEMENTARY EDUCATION

## SECONDARY EDUCATION

Bookkeeping-Basic Business

English-Comprehensive

History and Government-Comprehensive

Latin

Mathematics

Modern Languages-Comprehensive

Biological Science-Comprehensive

Physical Science-Comprehensive

Social Studies-Comprehensive

Speech-Comprehensive

## SPECIAL SUBJECTS

Art

Home Economics

Industrial Arts

Music Supervision-Vocal; Instrumental;  
Elementary Schools

Physical Education-Men; Women

Speech and Hearing Therapy

## GUIDANCE AND COUNSELING

## SCHOOL ADMINISTRATION

## CURRICULUM AND SUPERVISION

## STUDENT TEACHING

## CENTER FOR EDUCATIONAL RESEARCH AND SERVICE

## TEACHING CERTIFICATES

## SCHOOL OF HOME ECONOMICS

VISITING COMMITTEE  
COLLEGE OF EDUCATION

Edwin L. Kennedy, Chairman  
Partner in the firm of  
Lehman Brothers, New York

Ruth E. Eckert  
Professor of Higher Education  
University of Minnesota

W. Francis English  
Dean of the College of Arts and  
Sciences, University of Missouri

Martin Essex  
Superintendent of Schools, Akron

Mrs. Thomas Halc Ham  
Member of the Cuyahoga County  
Community College Board

Elizabeth Herbert  
Chairman, English Department,  
John Adams High School, Cleveland

E. E. Holt  
Superintendent of Public Instruction,  
State Department of Education,  
Columbus, Ohio

Charles Murphy  
President, Murphy Corporation

Ora C. Roehl  
Financial and Management Consultant

Paul F. Sharp  
President, University of North Carolina

# THE COLLEGE OF EDUCATION

The College of Education is devoted to the education of men and women who intend to enter the fields of teaching and educational administration. A wide range of programs prepares students for teaching in elementary schools, high schools, and colleges; for positions as supervisors, school principals, or superintendents; and for such specialized educational work as that of the guidance counselor or school psychologist.

All these programs include a broad base of general education, intensive preparation in the subjects to be taught, and professional emphasis and focus which combine educational theory with actual practice in meeting the responsibilities of the profession. Each program is thus designed to prepare students to enter the profession possessing the liberal background, the functional knowledge, and the professional understanding and skill which are requirements for professional success.

The College of Education is accredited by the National Council for Accreditation of Teacher Education, and is approved for teacher training by the State of Ohio Department of Education.

## BACHELOR OF SCIENCE IN EDUCATION

The degree, Bachelor of Science in Education, represents the completion of a program designed to develop in the student competence in three areas: the broad awareness of the principal academic fields developed through a true university education; the deeper study of the particular studies in which the student seeks the undergraduate mastery necessary for teaching these subjects; and the understanding of the professional responsibilities of teaching, and demonstrated skill in meeting them.

The degree is granted upon completion of the general graduation requirements of the University, including a minimum of 124 semester hours with a point-hour ratio of 2.0 (C) on all hours attempted, but including only the final hours and points in repeated courses, and in addition this same point-hour ratio in the major teaching field. For a student with transferred credit, this

rule applies to both his cumulative record, which includes transferred credits, and to his Ohio University record exclusive of transferred credits. These programs are of three main types:

*Elementary Education.* This program prepares for teaching in kindergarten-primary, or intermediate grades, with specialization in one of these groups.

*Secondary Education.* This program prepares for teaching any of the academic fields in high school. Students planning to teach at the secondary school level will ordinarily be prepared in one or more minor teaching subjects, in addition to their major field. Such minors should be carefully selected in consultation with an adviser, in view of the student's interests and abilities. (Outlines of majors are included in this section.)

*Teaching Special Subjects.* Such special subjects as art, home economics, industrial arts, music, physical education, and speech and hearing therapy are ordinarily not limited to any grade level. Students who major in these subjects will be prepared to teach their specialty in both elementary and high school.

## SELECTIVE ADMISSION AND RETENTION

There are three distinct steps or admission phases in the Admission and Retention Program.

### A. ADMISSION TO TEACHER EDUCATION

Application for admission to teacher education should be made during the second semester of the freshman year. The criteria students must meet by the *end of the semester* in which they apply are:

1. Completion of 25-54 semester hours of credit.
2. Completion of Psychology I.
3. Education 277 (September field experience) must be applied for or completed. All students in teacher education must present evidence of an experience of five consecutive school days duration taken during the opening days of the public school in September, prior to the student's sophomore year.

4. Attainment of a 1.8 cumulative point hour ratio (2.0 if beyond 40 hours and a 2.25 in work transferred from another university.)

Application for admission to Teacher Education may be obtained in the Student Personnel Services Office, McCracken Hall.

#### B. ADMISSION TO JUNIOR STANDING

Application for admission to junior standing in teacher education should be made at the end of the second semester of the sophomore year. Criteria should be met by the end of the semester in which the student applies.

1. Criteria that must be met by all students in teacher education:
  - a. Completion of 55-74 semester hours of credit.
  - b. Completion of Psychology 71
  - c. Completion of Education 277 (September field experience.)
  - d. Satisfactorily meeting the English proficiency requirement. The student must have demonstrated proficiency in English usage. This requirement may be satisfied by earning a "C" or better in English 4, English 7, or English 293, or by passing the English proficiency test. (All transfer students must pass the English proficiency test regardless of the English grade transferred from another institution.)
  - e. Satisfactorily meeting the Speech Proficiency requirement. The student must have successfully passed a speech proficiency test given by the Speech Department. A card certifying that this test has been passed must be on file in the Office of the Director of Student Teaching.
  - f. Attainment of a 2.0 cumulative point hour ratio (2.25 in transfer work from another university).
  - g. A satisfactory report from the health center.
  - h. A satisfactory report from the academic advisor.
  - i. A satisfactory report from the Dean of Students office.
2. Special criteria for students in elementary education:
  - a. Completion of six (6) hours of course credit on the Athens campus to include one (1) edu-

cation methods course (Ed. 103, 163, 165, 169) and any one three (3) hour course required during the first four (4) semesters on the elementary plan sheets.

- b. Cadet students do not apply for junior standing.
3. Special criteria for students in secondary education:
  - a. Completion of Education 125 or 130 or 101 or 101 H.
  - b. Achievement of a 2.0 cumulative point hour ratio in each of the declared teaching fields.
  - c. Adequate progress toward completion of the 30 hours of General Education required by the State Certification Law. (See University catalog)
  - d. Completion of six (6) hours of course credit on the Athens campus including Education 125 or 130 or 101H and a required course in the principal teaching field.

Application for admission to junior standing in Teaching Education may be obtained in the Student Personnel Services Office, McCracken Hall.

#### C. ADMISSION TO STUDENT TEACHING

See prerequisites for Student Teaching at the back of this College of Education section.

## ELEMENTARY EDUCATION

The following program includes all requirements, except those established by deficiencies in the high school pattern, for students who plan to specialize in elementary education.

	Hours
Psych 1. General Psychology .....	3
Psych 71. Educational Psychology .....	3
Eng. 3-4 or 7. English Composition .....	3-6
Eng. 111 or 112. Chief American Writers .....	3
Speech 1. Fundamentals of Speech .....	1
Physical Education .....	2
P.E. 102. Personal and Community Health .....	3
P.E. 270. Teaching of Physical Education .....	1
Mus. 72. Music Fundamentals .....	2
Mus. 262. Music for the Classroom Teacher .....	2
Art 3. Elementary Design for Teachers .....	2
Art 160. Practical Design Workshop for Elementary Teachers .....	3
Select from the following: (depending on high school deficiencies)	
Biol. 1-2. The Living World .....	9
Phys. Sci. 3, 4. The Physical World .....	9
Math. 7-8. Foundations of Elementary Arithmetic* .....	6

Hist. 1, 2. Western Civilization in Modern Times .....	6
Hist. 101 or 102. History of the United States .....	3
Geog. 150. Geography and Environment .....	3
Govt. 1. American .....	3
Social Science Elective .....	3
Ed. 102. Literature for Children .....	3
Ed. 103. Studies of Children .....	3
Ed. 163. Teaching of Reading and Language .....	4
Ed. 165. Teaching Arithmetic in the Elementary School .....	3
Ed. 169. Teaching of Social Studies and Science in the Elementary school .....	4
Ed. 211. The Child and the Curriculum .....	3
Ed. 272. Student Teaching in the Elementary Grades .....	7-12
Ed. 277. Field Experience .....	1
Ed. 288. Student Teaching Seminar .....	3
Ed. 200. The Development of Kindergarten Education .....	2
Ed. 201. Materials and Methods in Kindergarten Primary Education .....	2
(Required of Kindergarten-Primary majors) *Prereq., high school Algebra and Plane Geometry.	

Students will follow either and A or B outline of the above requirements by semester, in consultation with an assigned adviser.

In addition to the general requirements, each student majoring in Elementary Education will be expected to have at least one subject area of 15 semester hours of concentration in one of the following: Economics, English-Literature; Geography; Government; History; Modern Language; Philosophy-Humanities; Science-Math; Sociology-Anthropology; or Speech and Dramatic Arts.

**KINDERGARTEN-PRIMARY EDUCATION.** A student majoring in Elementary Education may receive the kindergarten-primary certificate by completing the general pattern of the elementary curriculum as shown above. Student teaching must be done on the kindergarten-primary level and specialized courses in theory, materials, and methods of kindergarten-primary education must be taken as indicated by an adviser.

Validation of the regular four-year provisional elementary certificate for teaching the Slow Learner may be secured by completing course work in Special Education and Psychology, as outlined by the College of Education.

#### SPECIAL CADET PROGRAM

Students will not be permitted to register for the special Cadet Program leading to a four-year provisional cadet certificate on the main campus of Ohio University after the fall of 1966.

## SECONDARY EDUCATION, ACADEMIC AND SPECIAL

The following are the *general requirements* for all students in the College of Education who plan to specialize in the teaching of the academic subjects in the secondary schools or the special subjects.

	Hours
PSYCHOLOGY .....	6
Psych. 1—General Psychology .....	3
Psych. 71—Educational Psychology .....	3
EDUCATION .....	18-26
Ed. 277—Field Experience .....	1
Ed. 130—Secondary Education (or Ed. 125—Purposes and Practices of Education, where appropriate) .....	3
Ed. 229—Curriculum and Teaching Practices .....	4
Methods in Major field .....	2-3
Ed. 281—Student Teaching in the Secondary Schools (and/or Ed. 272—Student Teaching in the Elementary Schools, where appropriate) .....	7-12
Ed. 288—Seminar .....	1-3
ENGLISH .....	*9-12
Eng. 3-4 or 7—English Composition .....	3-6
Eng. 101 or 102—English Literature .....	3
Eng. 111 or 112—The Chief American Writers or Eng. 356 or 360—American Literature .....	3
FINE OR APPLIED ARTS OR PHILOSOPHY—(unless met by the Major) .....	6
MATHEMATICS (as required by University College)	
PHYSICAL EDUCATION (as required for graduation) .....	2
NATURAL SCIENCE .....	6-8
(One year in one field: Biology, Botany, Zoology, Chemistry, Physics, Geology, Physical Science)	
SOCIAL STUDIES .....	*9-12
Hist. 101 or 102—History of the United States .....	3
Economics, sociology, geography, government, social science .....	6-9
SPEECH I—FUNDAMENTALS OF SPEECH .....	1
ELECTIVE—approved by the College of Education .....	2-3

\*Depending on Major

#### BOOKKEEPING — BASIC BUSINESS

Acct. 75-76—Elementary Accounting .....	6
Acct. 125—Intermediate Accounting .....	3
Bus. L. 255-256—Business Law .....	6
Ec. 11-12 or 101-102—Principles of Economics .....	6
Geog. 115—Economic Geography .....	3
Mkt. 155—Marketing Principles .....	3
Mkt. 330—Office Management .....	3
Mkt. 275—Selling and Sales Management .....	3
Mkt. 301—Retail Selling Policies .....	3
Fin. 110—Money and Banking .....	3
Acct. 261—Teaching of Business Subjects .....	2
Electives in business subjects .....	6

#### ENGLISH COMPREHENSIVE

Eng. 3-4 or 7—English Composition .....	3-6*
Eng. 101 and 102—English Literature and .....	

Eng. 111 or 112—The Chief American Writers or	
Eng. 356 or 360—American Literature	9
Eng. 311—History of the English Language	3
Eng. 314—Structure of American English	3
Eng. 224—Shakespeare	3
Eng. 293—Advanced Composition	3
Elective (200 level) (Eng. 264, 290 and 293 may not be used)	6
Elective (300 level) chosen so that three periods are represented	9
Election of one of the following groups (a, b, c, or d):	
a. THEATER: Speech 34	3
Dramatic Arts 105	3
b. DEBATE: Speech 25	2
Speech 325	3
c. LIBRARY SCIENCE:	
Library Science 191	3
Library Science 291	3
d. LINGUISTICS:	
English 315	3
English 316	3

\*Students who take English 7 must take an additional literature course to make up the three hours.

#### HISTORY AND GOVERNMENT

History 1 & 2, Western Civilization	6
History 101 & 102, United States History	6
History 115 or 120 or 125, Ancient or Medieval History	3
History electives, including three courses above 300 of which at least one course must be non-European and non-American	15
Government 1 and 2, American Government	6
Government 101 or 102,	
Comparative Government	3
Elective in Government (Government 202, 3 hours is recommended)	3

#### LATIN

I. For those entering with 4 years of Latin:	
Latin 251, Familiar Essays	3
Latin 252, Horace & Terrence	3
Latin 331, Life of the Romans	2
Latin 333, Advanced Latin Syntax	2
Approved electives in Latin and Greek	10
II. For those entering with 2 years of Latin:	
Latin 101, Latin Review and Reading	4
Latin 102, Vergil	4
Nineteen hours from the above	19
III. For those entering with no high school credits:	
Latin 1 & 2, Beginning Latin	8
Requirements as for II.	27

#### MATHEMATICS

Math. 15, Freshman Mathematics	5
Math. 16, Analytic Geometry and Calculus	5
Math. 101, Analytic Geometry and Calculus	4
Math. 102, Analytic Geometry and Calculus	4
Math. 207, Introduction to Mathematical Statistics	3
Math. 209, College Geometry	3
Math. 301, Arithmetical and Algebraic Systems	3
Math. 268, Teaching of Mathematics in High School	3
Education 263, Teaching Arithmetic in the Upper Grades	2
Select from the following	3
Astronomy 111 or 112, Elem.	
Math. 104, Advanced Mathematics of Business C. E. 10, Plane Surveying	
Math. 331, Theory of Statistics	

#### MODERN LANGUAGES

Student wishing to major in one of the Modern Languages—French, German, Russian, or Spanish should take the following:

Beginning Language 1-2	8
Intermediate Language 101-102	8
Language 201-202	6
Language 209-210	6
Language 213	3

Approved electives in the major language at least 9 hours at 300 level

Select 6 hours from the following:	
History and/or Civilization of the Country of the Language	
Philosophy	
Linguistics	
Cultural Anthropology	

#### BIOLOGICAL SCIENCE — COMPREHENSIVE

Chem. 3-4, 99—General Chemistry and Qualitative Analysis	8
Physics 5-6—Introduction to Physics	8

Math 3—College Algebra or	
Math 9 and 10—Fundamentals of Mathematics	6

Zool. 3-4—Principles of Zoology	7
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Bot. 3-4—General Botany	8
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A minimum of three hours chosen in each of the following areas for a total of at least seven credits in each of the two disciplines (Botany and Zoology):

TAXONOMY:	
Botany 106, 117, 123, 242, 315, 316, 325	
Zoology 113, 118, 219, 241, 311, 316, 320, 323, 325, 326	

PHYSIOLOGY:	
Botany 205, 307, 310	
Zoology 134, 305, 306, 307, 309, 310, 319, 335	

ECOLOGY:	
Botany 108, 203, 304, 330	
Zoology 216, 327	

MORPHOLOGY:	
Botany 173, 211, 212, 232, 314	
Zoology 120, 121, 133, 225, 301, 302, 304	

GENETICS AND EVOLUTION:	
Botany 308, 327	
Zoology 107, 108, 308, 331	

STUDENTS WISHING TO QUALIFY FOR A GENERAL SCIENCE TEACHING CERTIFICATE MUST ADD TO THE ABOVE REQUIREMENTS GEOLOGY 3 AND 4. (6 semester hours).

#### PHYSICAL SCIENCE — COMPREHENSIVE

Bot. 3-4—General Botany	8
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Chem. 3-4, 99—General Chemistry and Qualitative Analysis	8
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Physics 5-6—Introduction to Physics	8
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Zool. 3-4—Principles of Zoology	7
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Astron. 111-112—Elementary Astronomy, Geol. 3-4—Elements of Geology	9
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Math. 3—College Algebra and	
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Math. 14—Trigonometry or	
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Math. 15—Freshman Mathematics	5-6
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Additional study in one speciality as follows:

1) Chemistry (16 hrs.)	
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2) Physics (16 hrs.)	
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3) Geography & Geology (16 hrs.)	
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#### SOCIAL STUDIES COMPREHENSIVE

History 1 & 2, Western Civilization	6
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History 101 & 102, United States History	6
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History 115 or 120 or 125, Ancient or Medieval History	3
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History electives, including three courses above 300 of which at least one course must be non-European and non-American	15
Government 1 & 2, American Government	6
Government 101 or 102, Comparative Government	3
Sociology 1 or 101, Introduction to Sociology	3
Economics 11 or 101, Principles of Economics	3
Geography 150, Geography and Environment	3
Electives: Select from one of the following fields at the 200 level or above	6
Economics, Geography, Psychology, (not to include Psychology 71 or 1), Government, Sociology.	

## SPECIAL SUBJECTS

### ART

<i>Design:</i> Req.—8 hours min.	
*Art 1 & 2—Draw. & Design	6
Art 137—Fashion Design	2
Art 271—Interior Design	3
<i>Drawing:</i> Req.—11 hours min.	
*Art 28—Figure Drawing	2
*Art 101—Draw. & Design	3
Art 111—Draw. Workshop	2
Art 128—Adv. Fig. Draw.	3
*Art 109a—Lithog. & Rel. Prints or *Art 109b—Intaglio Prints	2-3
<i>Painting:</i> Req.—7 hrs. min.	
*Art 218—Watercolor	3
*Art 105—Painting	2-3
*Art 305—Adv. Painting or 205	2
<i>Commercial Art and Lettering:</i> Req.—3 hrs. min.	
*Art 113—Lettering	2
Art 114—Lettering	3
<i>Sculpture:</i> Req.—2 hrs. min.	
*Art 21—Elementary Sculp.	2
Art 131—Fig. Modeling	2-3
<i>Crafts:</i> Req. 10 hrs. min.	
*Art 115—Ceramics	2-3
Art 215—Ceramics	3
Art 120—Textiles	3
Art 123—Jewelry and Enameling	2
*Art 240—Design Applied to Material	2
<i>Art History:</i>	
*F. A. 121 & 122—Hist. of Painting & Sculpture	6
*F. A. 175 & 176—Hist. of Architecture	6

\*Required.

### HOME ECONOMICS

<i>Foods &amp; Nutrition</i>	
H. Ec. 1, Introduction to Food Science and Principles, H. Ec. 2, Meal Management	6
H. Ec. 12—Food Preparation and Meal Management (3)	3-6
H. Ec. 125—Family Nutrition	2
H. Ec. 325—Comparative Studies of Foods (3) or	
H. Ec. 327—Quantity Cookery (3)	3
<i>Textiles &amp; Clothing</i>	
*H. Ec. 3-4, Clothing Selection and Construction (4) or	
H. Ec. 14—Theory & Construction of Clothing (3)	3-4
*H. Ec. 110—Textiles	2
H. Ec. 212—Flat Pattern Design (3) or	
H. Ec. 316—Tailoring (3)	3

### The Home

*H. Ec. 7—The Home and Its Furnishings	2
H. Ec. 330—Workshop in Home Furnishings	3
H. Ec. 334—Household Equipment	3
<i>Home Management &amp; Family Economics</i>	
*H. Ec. 108—Consumer Problems of the Family	2
*H. Ec. 351—Home Management	2
*H. Ec. 353—Home Management Laboratory	3
<i>Family Relations &amp; Child Development</i>	
*H. Ec. 5—Infant & Child Development	3
*H. Ec. 106—Family Living	3
H. Ec. 172—The Preschool Child	2
<i>General</i>	
*H. Ec. 51—Orientation in Home Economics	1
H. Ec. 161—Home Nursing and Family Health	2
H. Ec. 368—Demonstration Techniques	2
H. Ec. 268—Teaching of Home Economics	2
<i>Natural or Biological Science</i>	
Chem. 3-4 and 99—General and Qualitative Chemistry or Biol. 1-2—Living World or Zool. 3-4—Principles of Zoology	6-8
Zool. 241—Elementary Bacteriology	4

\*Required.

### INDUSTRIAL ARTS

Ind. A. 9—Crafts	2
Ind. A. 15—Metal Form. & Join.	3
Ind. A. 16—Machine Metal.	3
Ind. A. 101—Ceramics	2
Ind. A. 120—Small Engines	2
Ind. A. 133—Electricity	3
Ind. A. 141—Graphic Arts	3
Ind. A. 150, 151—General Wood	3
Ind. A. 161—Ind. A. Design	2
Ind. A. 190—Materials of Industry	3
Ind. A. 170—Teaching of I. A.	3
Ind. A. 270—Administration of I. A.	3
Ind. A. Electives—(Two areas)	11
E. G. 1—Engineering Drawing	3
E. G. 15—Ind. A. Drawing	2
Chem. 3, 4—General Chemistry	6
Chem. 9—Qualitative Analysis	2
Physics 5-6—Introduction	8

### MUSIC — GENERAL SUPERVISION

(with emphasis on voice)

Applied Music—16 hours:	
Voice (must include Voice 14)	4
Piano (must include Piano 6)	4
Additional study in selected fields of applied music	8
Mus.—Chorus	4
Mus.—Participation elective (Chorus, Singers, Band, Orchestra)	4
Mus. 3-4—Theory	6
Mus. 105-106—Harmony	6
F. A. 123-124—History of Music	6
Mus. 201—Analysis and Form	2
Mus. 233—Instrumentation	3
Mus. 261—String Techniques and Materials	2
Mus. 263—Wind and Percussion Techniques and Materials (2 semesters, 2 hours each)	4
Mus. 265—Vocal Techniques and Materials	2
Mus. 266—Teaching of Music in the Elementary Grades	3
Mus. 267—Supervision and Administration of Music in the Public Schools	3
Mus. 273—Conducting	2

<b>MUSIC — GENERAL SUPERVISION</b> (with emphasis on instrumental)	
Applied Music—17 hours:	
Principal Emphasis .....	8
(Completion of Classif. 18)	
Secondary Emphasis .....	3
(If Principal Emphasis is winds, 3 hrs. must be in strings; if principal Emphasis is strings, 3 hrs. must be in winds.)	
F. A. 123-124—History of Music .....	6
Mus. 201—Analysis and Form .....	2
Mus. 233—Instrumentation .....	3
Mus. 261—String Techniques and Materials (3 semesters, 2 hrs. a semester)	2
Piano (must include Classif. 4) .....	4
Voice .....	2
Mus.—Band and/or Orchestra .....	8
Mus.—Chorus .....	1
Mus. 3-4—Theory .....	6
Mus. 103-104—Dictation and Sight Singing .....	4
Mus. 105-106—Harmony .....	6
Mus. 265—Vocal Techniques and Materials .....	2
Mus. 266—Teaching of Music in Elementary Grades .....	3
Mus. 267—Supervision and Administration of Music in the Public Schools .....	3
Mus. 273—Conducting .....	2
<b>GENERAL MUSIC SUPERVISION</b> (Emphasis on Elementary School Music)	
General Requirements	
Psychology:	
1—General .....	3
71—Educational .....	3
Education:	
277—Field Experience .....	1
125—Purposes and Practices of Education .....	3
211—Child and the Curriculum or	
103—Studies of Children .....	3
229—Curriculum and Teaching Practices .....	4
272—Student Teaching, Elem. .....	4
281—Student Teaching, Secon. .....	3
288—Seminar .....	1-3
Art:	
Electives .....	6
English:	
3-4 or 7—English Composition .....	3-6
101 and 102—English Literature .....	6
Humanities:	
(As required by Univ. College and by certification regulations)	
Speech 1—Fundamentals .....	1
Physical Education .....	2
Mathematics:	
(As required by Univ. College)	
Natural Science:	
(One year in one field) .....	6
Social Studies:	
History 101 or 102 .....	3
Economics, Geography, Government, Sociology, Social Science .....	6
Requirements in Major	
Applied Music—16 hours	
Voice (must include Voice 14) .....	4
Piano (must include Piano 6) .....	4
Additional study in selected fields of applied music .....	8
Chorus .....	4
Participation Elective (Chorus, Band, Orchestra) .....	4
Music:	49
3-4—Theory .....	6

103-104—Dictation and Sight Singing .....	4
105-106—Harmony .....	6
P. A. 123-124—History of Music .....	6
201—Analysis and Form .....	2
233—Instrumentation .....	3
261—String Tech. and Materials .....	2
263—Wind and Percussion Techniques and Materials .....	2
265—Vocal Techniques and Materials .....	2
266—Teaching Music in Elem. Grades (2 semesters, 3 hrs. per semester) .....	6
267—Music Supervision and Administration .....	3
268—General Music for Adolescents and Adults .....	3
269—Social and Recreational Instruction .....	2
273—Conducting .....	2

**PHYSICAL EDUCATION — MEN**

P.E. 61—Introduction .....	1
P.E. 165, 166, 221, 222—Program Skills .....	8
P.E. 102—Personal and Community Health .....	3
P.E. 127—First Aid .....	2
P.E. 150—Recreation .....	3
P.E. 233—Theory of Adapted Activities .....	2
P.E. 235—Program Techniques .....	1
P.E. 267—Athletic Coaching .....	4
P.E. 268—Athletic Coaching .....	4
P.E. 181—Administration of Intramural Activities .....	2
P.E. 269—Teaching of Health .....	3
P.E. 304—History and Principles .....	3
P.E. 306—Organization and Administration .....	3
P.E. 309—Tests and Measurements .....	3
P.E. 395—School Health Problems or Psych. 131—Adjustment or Psych. 174—Psychology of Adolescence .....	2-3
Zool. 3—Principles of Zoology .....	4
Zool. 133-134—Anatomy, Kinesiology, and Physiology .....	7
P.E. 168—Football Skills, (Required of those without football experience at Ohio University) .....	1

**PHYSICAL EDUCATION — WOMEN**

P.E. 4—Intermediate Swimming .....	1
P.E. 13—Mass Games .....	1
P.E. 41—Golf .....	1
P.E. 7 & 8—Modern Dance .....	2
P.E. 102—Personal & Community Health .....	3
P.E. 65, 66, 121, 122—Program Skills .....	8
P.E. 127—First Aid .....	2
P.E. 150—Recreation .....	3
Zool. 3—Principles of Zoology .....	4
Zool. 133-134—Anatomy, Kinesiology & Physiology .....	7
P.E. 272, 273—Teaching Methods .....	4
P.E. 274-275—Teaching of Physical Activities .....	2
P.E. 269—Teaching of Health .....	3
P.E. 233—Theory of Adapted Activities .....	2
P.E. 304—History & Principles .....	3
P.E. 306—Organization & Administration .....	3
P.E. 395—School Health Problems or Psych. 131—Psychology of Adjustment or Psych. 174—Psychology of Adolescence .....	3-2
P.E. 309—Tests & Measurements .....	3
Ed. 102—Studies of Children .....	3

**GENERAL SPEECH**

Spch. 7—Basic Speech Training .....	2
Spch. 3—Public Speaking .....	2
Spch. 25—Principles of Argumentation .....	2
Spch. 34—Oral Interpretation of Literature .....	3

Spch. 104—Bases of Speech .....	3
Spch. 112—Advanced Public Speaking .....	2
Spch. 195—Principles of Speech Correction .....	3
Spch. 325—Direction of Forensic Programs .....	3
Spch. 305—Group Discussion and Conference Leadership .....	3
Dram. A. 10—Introduction to Theatre .....	2
Dram. A. 21—Elements of Stage Scenery .....	3
Dram. A. 123—Elements of Stage Lighting or elective in Public Address at 300 level .....	2-3
Dram. A. 148—Costuming & Makeup .....	2
Spch. 147—Workshop in Spch. or	
Dram. A. 299—Principles of Acting .....	2-3
Dram. A. 250—Play Direction .....	3
F. A. 179 or 180—History of Visual Theatre or	
F. A. 203 or 204—History of Oratory .....	6
Rad.-TV 360—Instructional Methods in Radio-TV .....	3
Rad.-TV 180—Radio Speech .....	2

**SPEECH PATHOLOGY AND AUDIOLOGY**

Spch. 3—Public Speaking .....	2
Spch. 7—Basic Speech Training .....	2
Spch. 25—Principles of Argumentation or	
Spch. 34—Oral Interpretation of Literature .....	2-3
Radio-TV 105—Broadcasting Mech. ....	2
Spch. 195—Principles of Speech Correction .....	3
Spch. 196—Phonetics I .....	3
Spch. 267—Anatomy of Speech and Hearing Mechanics .....	3
Spch. 268—Speech Science .....	3
Spch. 269—Language Development .....	3
Spch. 270—Stuttering I .....	3
Spch. 271—Clinical Audiometry .....	3
Spch. 272—Disorders of Articulation and Voice .....	3
Spch. 321—Diagnostic Procedures .....	3
Spch. 322—Neurological Disorders .....	3
Spch. 323—Auditory Rehabilitation .....	3
Spch. 347—Precticum in Diagnosis .....	1
Required electives to be chosen from Fine Arts, English Literature, science, mathematics, social studies, language, religion, or philosophy .....	6

All majors in Speech and Speech Pathology and Audiology are also required to demonstrate adequate mastery of basic voice and articulation skills in a speech proficiency test.

## **PREPARATION FOR PUPIL PERSONNEL, GUIDANCE, AND STUDENT PERSONNEL SERVICES**

Pupil Personnel Service involves the work of the School Counselor, the School Psychologist, and the Visiting Teacher in elementary and secondary schools. In the state of Ohio, and many other states, professional workers in these fields must earn a state certificate. This requires teaching experience and graduate work beyond the bachelor's degree, including a master's degree.

Student Personnel Service involves the work of the college or university counselor, dean of students, housing director, admissions officer, and the like.

**SCHOOL COUNSELOR.** The certificated counselor in an elementary or secondary school must hold a master's degree in guidance and have three years of experience, one of which must be in teaching. Under-graduates interested in this field will prepare to be teachers and may also take the following courses: (Starred courses are especially recommended.)

- \*Ed. 360—Guidance Principles (3) or
- \*Ed. 367—Guidance in Elementary Schools (3)
- \*Ed. 362—Information Service in Guidance (3)
- \*Ed. 364—Counseling in Schools (3)
- \*Ed. 385—Educational Measurements (3)

At least two courses must be taken from the following:

- Ed. 103—Studies of Children (3)
- Ed. 381—Educational Statistics (3)
- Psych. 131—Psychology of Adjustment (3)
- Psych. 174—Psychology of Adolescence (2)
- Psych. 261—Industrial Psychology (3)
- Psych. 375—Psychology of Exceptional Children (3)

Graduate students who desire preparation in this field will find programs described in the Graduate College Bulletin under EDUCATION. Detailed programs in guidance and in college student personnel services in higher education work leading to the M.Ed. or Ph.D. degree may be secured from the office of the Guidance Training Laboratory, College of Education.

Undergraduate students interested in this field do well to become involved in the program for dormitory work which involves upper-classmen. They should also consult a staff member in the Department of Counseling, Guidance and Student Personnel of the College of Education.

**SCHOOL PSYCHOLOGIST.** The certificated school psychologist must hold a teaching certificate and must hold a master's degree which includes not less than twenty-four hours of work distributed as follows: learning and human development (8), group measurement (2), statistics (2), individual measurement (8), counseling (2), and the role of psychologist in the school (2). Undergraduates interested in this field should prepare to teach and should consult an adviser in the Psychology or Education Department.

**VISITING TEACHER.** The certificated visiting teacher must have not less than one year of successful teaching experience

and must have earned 20 hours of graduate credit in: child development and measurements, community organization, pupil personnel work and guidance, school administration, and orientation to social case work. Undergraduates interested in this field should prepare to teach and should consult the adviser in Social Work.

## **COLLEGE AND UNIVERSITY STUDENT PERSONNEL WORK**

The master's degree is minimum preparation for such work. The doctorate is necessary for the more responsible positions. As an undergraduate the student interested in this field should develop considerable breadth in the social sciences, concentrating in the behavioral sciences. Undergraduate work in Human Relations and Psychology are especially desirable. A good background in the study of educational institutions and their role in modern societies is essential.

## **STUDENT TEACHING**

Successful student teaching represents the culmination of the program of professional preparation; it is a requirement for the degree, Bachelor of Science in Education. No candidate will be considered for the degree, or for recommendation for a teaching certificate, who has not completed, under the supervision of Ohio University, at least seven hours of observation, participation, and student teaching.

**APPLICATION.** It is the responsibility of the student to enter an application for student teaching in the office of the Director of Student Teaching, not later than December 15 preceding the academic year in which a student teaching assignment is desired.

**FACILITIES.** Due to limited facilities available for student teaching in the city of Athens and a commuting radius of 30 miles, it is necessary for most student teachers to be assigned to off-campus locations. Student teachers are assigned to the public school systems of the Cleveland area, Marietta (elementary), Martins Ferry, St. Clairsville, Zanesville, Lancaster, Chillicothe, Portsmouth, Ironton, and in selected

schools in Fairfield, Lawrence, Muskingum, Perry, Pike, Ross, and Scioto counties. Students who are assigned in the local area are assigned to the University Elementary School, the Athens City elementary and high schools, and to the school systems of Nelsonville, Logan, and Warren Consolidated (Washington County).

**SCHEDULE.** Students experience the complete range of a teacher's activities in full-time student teaching assignments. It is necessary for all students who pursue curricula leading to teacher certification to plan carefully during the first three years of college so that they may devote one complete semester to full-time student teaching. Student teachers should schedule student teaching in either the second semester of the junior year or the first semester of the senior year. An extremely limited number of student teaching applicants can be assigned within a commuting distance of the Athens campus.

### **PREREQUISITES FOR STUDENT TEACHING:**

- A. General Prerequisites.
  1. Residence: completion of at least one semester (15 hours) of residence work, including six credit hours on the Athens campus.
  2. Completion of at least 75 semester hours of course credit.
  3. Scholastic Average: the student must have a point-hour ratio of 2.0 (C) on all hours attempted, and specifically a 2.0 on all hours taken at Ohio University excluding transfer credit.
  4. Admission to junior standing in Teacher Education at least one university session prior to student teaching.
- B. Special Prerequisites for student teaching in Elementary Education.
  1. 2.25 cumulative point-hour ratio on all courses completed in the following group, and specifically a 2.25 on the courses in this group taken at Ohio University: Ed. 102, Ed. 103, Ed. 165, Ed. 163, Ed. 169, Music 262, Art 160, P.E. 270, and Psych. 71. At least three hours credit must be earned on the Athens campus, selected from Ed. 103, Ed. 163, Ed. 165, and Ed. 169.
  2. A student who has more than one "D" in the courses, Ed. 103, Studies

of Children; Ed. 163, Teaching of Reading & Language; Ed. 165, Teaching of Arithmetic; and Ed. 169 Teaching Social Studies and Science, will not be admitted to student teaching.

3. Completion of all courses required (prior to the designated student teaching semester) as indicated on the student's planned program outline (A or B).

C. Special Prerequisites for Student Teaching in Secondary Academic and Special Subjects.

1. Completion of Psych. 71, Ed. 130 or Ed. 125 or Ed. 101H, Ed. 229 or Ed. 229H and a methods course in the major teaching field, attaining a cumulative point-hour ratio of 2.25 and specifically a 2.25 on all of these courses taken at Ohio University. Ed. 125 or 130 must be taken on the Athens campus.
2. Each student must be prepared in one comprehensive teaching field (social studies, science—biological or physical, art, music, home economics, industrial arts, P. E., speech and hearing therapy) or in two teaching fields.
3. Completion of a major portion (at least three-fourths) of the work in each of the teaching fields in which the student wishes to be certified. A cumulative point-hour ratio of 2.25 must be attained in each of these fields, and specifically a 2.25 on the courses taken at Ohio University in each field. An average of at least a 2.0 must be achieved in each principal component of the comprehensive majors. Transfer students must complete at Ohio University at least one-fourth of the preparation in the principal teaching field.
4. Completion of the General Education requirements for certification in accordance with a pattern adopted by the University, consistent with the State Certification Laws and Regulations.

## THE UNIVERSITY ELEMENTARY SCHOOL

The College of Education of Ohio University maintains the University Elementary School, consisting of a four-year and a five-year kindergarten, and grades one through six. The first function of this school is to furnish the best possible learning environment and instruction for children, since this is essential if good laboratory experiences are to be made available to college students who are training for elementary teaching or supervision. Teachers in the University Elementary School are members of the university staff with training in elementary education and supervision, and successful teaching experience.

## CENTER FOR EDUCATIONAL RESEARCH AND SERVICE

The Center for Educational Research and Service is a division of the College of Education and is designed to make available the resources of the College of Education and of the University to educational workers—teachers, administrators, and supervisors. These services are also available to boards of education and to the public in communities served by Ohio University.

The Center's chief functions are: (1) to provide consultant services in such areas as curriculum planning, use of community resources, economic education, guidance programs, school-community relations, reading, testing, and supervisory and administrative problems (such consultative services may involve one of several staff members and may be a single meeting or a series of conferences and meetings); (2) to conduct school surveys of educational programs and curricula, school building and site needs, and organization of school districts; (3) to assist in the solution of professional problems through off-campus and on-campus workshops; (4) to promote conferences on vital problems confronting public education; (5) to publish those studies and reports which will aid in solving educational problems, and to distribute such publications; (6) to assist schools with the organization or revision of programs of reading (especially for exceptional children), guidance and testing; and (7) to

encourage cooperative attack by teachers, administrators, boards of education, and the public toward solution of educational needs.

## GRADUATE WORK IN EDUCATION

Graduate work at Ohio University is under the direction of the Graduate College and its Graduate Council, and is described in the Graduate College Bulletin.

The College of Education offers many advanced graduate courses to help school workers raise the level of their competence in their professional work. Programs are available leading to the M.Ed. and Ph.D. degrees. It is also possible in certain fields to plan a sixth year of study or "Professional Competency Program." Detailed descriptions of these various graduate programs may be secured from the College of Education or the Graduate College.

The types of programs offered cover the following professional fields:

- Business Administration in Education
- Counselor Education in Higher Education
- Curriculum and Supervision
- Educational Administration
- Elementary Education
- Guidance and Counseling in Secondary Education
- Guidance in Elementary Education
- Student Personnel Services in Higher Education

In each of these fields, and to a limited extent in some other fields, the College of Education is prepared to advise students and to help them plan graduate programs most appropriate for their professional goals.

## TEACHING CERTIFICATES

A student who plans to teach in Ohio makes application for a teaching certificate at the time of application for graduation. The teaching certificate is issued by the State Department of Education upon the recommendation of the Dean of the College of Education, and qualifies the student to teach the subjects indicated on the certificate.

Completion of requirements for graduation and of the professional courses required for certification does not insure that

the individual will be recommended for certification. Instructors in various courses, and especially in courses in education and student teaching, will attempt to evaluate a student's fitness for the teaching profession in ways other than observation of academic performance in the classroom. Any reports of limitations which might tend to impair the individual's usefulness as a teacher in the public schools will be made a part of the student's record. When the student makes application for certification this record will be examined and the question of his fitness for teaching will be given further consideration.

Students who are not planning to teach in Ohio should inform themselves concerning the requirements specified by the department of education of the state in which they expect to teach.

A student who plans to teach in the elementary grades registers in the College of Education when he has completed the requirements of the University College. The curricula offered by the College of Education include the requirements of the State Department of Education and qualify a student to obtain a provisional certificate to teach in the elementary grades or the kindergarten-primary grades, depending upon the student's preparation.

Students who plan to teach high school academic or special subjects, ordinarily enroll in the College of Education. The curricula of the College of Education include the requirements of the State Department of Education and qualify the student to obtain a provisional certificate to teach the subjects indicated on the certificate. Students enrolled in other colleges of the University may meet certification requirements by completing the necessary professional and general education subjects, and completing requirements in the subjects which they plan to teach.

Students meet the minimum *professional* requirements for secondary certification to teach in Ohio by completing the following:

	Hours
Psych. 71—Educational Psychology .....	3
Ed. 277—Field Experience .....	1
Ed. 130—Secondary Education (or Ed. 125, Purposes and Practices of Education where appropriate) .....	3
Ed. 229—Curriculum and Teaching Practices .....	4
A methods course in major .....	2-3
Ed. 281—Student Teaching in the Secondary Schools .....	7-12
Ed. 288—Seminar .....	1-3

In addition, students must meet the following *general education* requirements for certification in Ohio, as set forth by the State Department of Education in *Laws and Regulations Governing the Certification of Teachers*, effective January 1, 1963:

General Education .....	30
(a) Science and/or Mathematics .....	6
(b) Social Studies .....	6
(c) Literature and/or Language .....	6
(d) Fine and/or Applied Arts .....	6
(e) Religion and/or Philosophy .....	6
Credit in either or both (d) and (e) .....	6
(f) Excess credit in any or all areas above .....	6

**MINORS.** A minor in Library Science for teachers may be secured by secondary teachers by completing 16 semester hours from the following:

Ed. 102—Lit. for Children .....	3
Lib. Sc. 191—The Use of Library Resources .....	3
Lib. Sc. 192—Classification and Cataloging of Books .....	3
Lib. Sc. 194—History of Books and Printing .....	3

Lib. Sc. 202—Books for High School Readers .....	3
Lib. Sc. 291—The School Library .....	3
Lib. Sc. 392—Advanced Library Studies .....	1-3
Lib. Sc. 393—Practical Problems in School Library Service .....	3

#### MAJOR FIELD OF SPECIALIZATION.

A major field of specialization, unless it includes the word *comprehensive*, must be accompanied by a second certifiable field. The level of preparation in the major area of specialization must correspond with the outline provided in the preceding pages, even though these requirements in many instances exceed those shown in the state certification regulations.

**SECOND TEACHING FIELD.** The level of preparation in the second certifiable field must equal or exceed requirements shown in the regulations of the Division of Certification of the State Department of Education.



*The University student, ex-student or graduate can find either industrial or educational employment through the Placement Services in Berry and McCracken Halls. The Services constantly maintain and promote all connections with possible employers.*



*Distinguished artists, businessmen, industrialists and educators are called upon to offer assistance in curricula planning by serving on college visiting committees. Internationally known photographer Jousuf Karsh, shown here addressing a photography class, is a member of the Fine Arts Visiting Committee.*

# THE SCHOOL OF HOME ECONOMICS

Vivian M. Roberts, *Director*

## GENERAL HOME ECONOMICS

Workshops

Seminars

Field Work

## CHILD DEVELOPMENT AND FAMILY LIFE EDUCATION

## FOODS AND NUTRITION

## HOME ECONOMICS EDUCATION AND EXTENSION

## HOUSING AND HOME MANAGEMENT

## FOOD SERVICE MANAGEMENT

## TEXTILES AND CLOTHING

## HOME ECONOMICS PROGRAMS FOR INTERNATIONAL STUDENTS

For over fifty years Ohio University has offered a program in Home Economics. During this time, the increased opportunities for the trained home economist both in business and in professional work have been responsible for many changes in the curriculum. Today the School of Home Economics recognizes the importance of providing the student with a broad liberal education as well as professional competence in one or more areas of Home Economics.

Included in the School of Home Economics are the following departments:

Child Development and Family Life Education

Foods and Nutrition

Home Economics Education and Extension

Housing and Home Management

Food Service Management

Textiles and Clothing

Fundamental knowledge in areas related to Home Economics is provided through close cooperation with other colleges and departments of Ohio University. The Colleges of Arts and Sciences, Business Ad-

ministration, Education, and Fine Arts all serve to enhance the background in areas related to the professional curricula in Home Economics.

The School of Home Economics offers eleven professional curricula leading to the Bachelor of Science in Home Economics degree. In addition, four curricula are offered for those following the two-year terminal program leading to the Associate in Arts degree. Graduate work leading to either the Master of Science or the Master of Education degree is also offered (see Graduate College Bulletin).

The program in the School of Home Economics at Ohio University is both cultural and professional. It is built upon a three-phase plan including:

- (a) General education in communications, natural science, humanities, social science, and art,
- (b) Basic courses in all areas of Home Economics,
- (c) Professional courses in the major field and related areas.

The student has a wide choice in selecting a field of specialization. The following

curricula all lead to the Bachelor of Science in Home Economics degree:

**Professional**

- Foods and Nutrition (Dietetics)
- Clothing and Textiles with Design
- Home Economics Education
- Home Economics Extension
- Child Development with Nursery Education
- Research
- Home Economics in Business: Journalism
- Commercial Foods and Equipment
- Fashion Merchandising
- Home Planning and Decoration
- Radio-Television

**Non-Professional**

- Home and Family Living

## **OPPORTUNITIES FOR THE PROFESSIONAL HOME ECONOMIST**

Career opportunities for the home economist in the business and the professional world are numerous. Hospitals, restaurants, hotels, and college residence halls are seeking the major in Dietetics. Public utility companies and manufacturers or retailers of food seek women trained in Commercial Foods and Equipment for promotional activities, writing publications, or experimental work with foods and equipment.

The girl interested in Textiles will find opportunities in textile testing or in developing promotional and educational programs for textile concerns. Clothing manufacturers, pattern companies, and clothing departments in retail stores seek the Clothing specialist for promotional work, designing garments, merchandising and buying, alterations, comparison shopping, or fashion coordination.

Home Economics Teachers, both vocational and nonvocational, are always in demand. The School of Home Economics is approved by the State of Ohio Department of Education for training vocational home economics teachers.

The broad program of Home Economics Extension in rural and urban areas of Ohio requires a large staff trained in extension for positions as home agent, extension specialist, or 4-H Club leader.

The home economist interested in Child Development will find opportunities in private or industrial nursery schools, in day-care centers, or in welfare agencies caring for young children. By meeting the state requirements for certification, she may teach young children in public schools.

Newspapers, women's magazines, and radio and television companies seek the home economist with a flair for writing, speaking, or demonstration, since she is trained to direct her program to the home-maker and consumer.

The Home Planning and Decoration specialist finds opportunities in gift and decorating establishments helping the consumer in the selection of furnishings for the home. Or she may become associated with magazine or advertising concerns writing or assisting with promotional programs.

**SPECIAL FACILITIES.** The program in home economics at Ohio University is not confined to the classroom and laboratories; other activities and experiences are encouraged. Two nursery schools, and two home management houses are maintained by the department. Nearby high school home economics laboratories are available for student teaching. Off-campus activities have been developed with the Ohio State Extension Service, with the Health Department, with business organizations, with department stores, with hospital dietary departments, and with radio-television stations to give the student opportunities for field work in specialized areas. Affiliation with the Merrill-Palmer Institute in Detroit, Michigan, provides a unique experience for the junior or senior desiring a semester of specialized training in all areas related to marriage and the family.

**ELECTIVE COURSES.** The School of Home Economics offers a group of core courses that have no prerequisites, and are open to any student in the University. These courses are the basic courses taken by all students in home economics (see p. 159). However, they may be elected by students desiring basic training in the activities relating to the successful management of a home. Individual courses may be elected.

**MINORS IN HOME ECONOMICS.** Programs may be set up with some one phase of home economics as a minor field. For instance, students from any department

in the University may elect a minor in any of the following fields:

- Home and Family Living
- Family Life Education
- Child Development
- School Lunch and Food Service Management
- Foods and Nutrition
- Textiles and Clothing
- Housing and Home Management

## DEGREE REQUIREMENTS FOR ALL HOME ECONOMICS MAJORS

Candidates for the degree of Bachelor of Science in Home Economics must fulfill the general graduation requirements of the University, must complete a minimum of 124 hours, plus any physical education in excess of two hours. A point-hour ratio of 2.0 (C) is required on all hours attempted, but includes only the final hours and grade points on repeated courses.

**REQUIREMENTS IN LIBERAL ARTS.** The School of Home Economics emphasizes a broad liberal education along with professional training. Basic courses in liberal arts required of all majors in home economics include:

English 3, 4 or 7—Composition .....	3-6
Speech 1—Fundamentals .....	1
Sociology 1—Introduction to Sociology, or 101—Principles .....	3
Psychology 1 or 101—General Psychology .....	3
Economics 11 or 101—Principles of Economics .....	3
Science (See Professional Curricula) .....	6-8
Humanities (See Professional Curricula) .....	6-8
Literature (See Professional Curricula) .....	3-6
Art 191—Design and Composition (3) or Art 1-2—Drawing and Design (6) .....	3-6
Electives in liberal arts to total 48 hours	

For specific requirements in science and humanities and for additional courses in natural science, humanities, social science, or communications, refer to the professional curriculum you are following.

**REQUIREMENTS IN HOME ECONOMICS.** All students in home economics are required to have basic courses in each area of home economics including:

H.Ec. 51—Orientation in Home Economics .....	1
H.Ec. 1—Introduction to Food Science and Principles or	
H.Ec. 12—Food Preparation and Meal Management .....	3

H.Ec. 3—Clothing Selection and Construction (2) or	
H.Ec. 14—Theory and Construction of Clothing (3) .....	2-3
H.Ec. 5—Infant & Child Development .....	3
H.Ec. 7—The Home and Its Furnishings .....	2
H.Ec. 106—Family Living .....	3
H.Ec. 108—Consumer Problems of the Family .....	2
H.Ec. 110—Textiles .....	2
H.Ec. 125—Family Nutrition .....	2
H.Ec. 351—Home Management .....	2
H.Ec. 353—Home Management Laboratory .....	3

**REQUIREMENTS FOR PROFESSIONAL CURRICULA.** In addition to requirements in liberal arts and the basic core courses in Home Economics usually taken during the freshman and sophomore years, a student selects one of the 11 professional curricula available during the last two years. A student not interested in a business or professional career, may follow the non-professional curriculum with emphasis on home and family living.

## PROFESSIONAL CURRICULA

### FOODS AND NUTRITION (DIETETICS)\*

Home Economics Courses:	Hours
H.Ec. 2—Meal Management (Except for those having H.Ec. 12)	
H.Ec. 269—Teaching of Foods and Nutrition .....	3
H.Ec. 322—Experimental Cookery .....	3
H.Ec. 325—Comparative Studies in Foods .....	3
H.Ec. 326—Advanced Nutrition .....	3
H.Ec. 327—Quantity Cookery .....	3
H.Ec. 329—Nutrition in Disease .....	2
H.Ec. 342—Marketing and Food Cost Control .....	2
H.Ec. 343—Equipment and Furnishings .....	2
H.Ec. 348—Organization and Management .....	3

#### Related Courses:

Acct. 75—Elementary Accounting .....	3
Chem. 3-4—General Chemistry .....	6
Chem. 99—Qualitative Analysis .....	2
Chem. 113—Organic Chemistry .....	4
Chem. 117—Organic Chemistry Laboratory .....	2
Psych. 71—Educational Psychology .....	3
Psych. 261—Industrial Psychology .....	3
Zool. 134—Human Physiology .....	3
Zool. 241—Elementary Bacteriology .....	4
Zool. 309—Physiological Chemistry .....	2

\*The American Dietetic Association offers three alternate plans for dietetics. If interested in another plan, see your advisor.

### CHILD DEVELOPMENT WITH NURSERY EDUCATION

Home Economics Courses:	Hours
H.Ec. 2—Meal Management (Except for those who have had H.Ec. 12)	
H.Ec. 161—Home Nursing and Family Health .....	2

H.Ec. 172—The Preschool Child .....	2
H.Ec. 370—Family Life Education .....	3
H.Ec. 375—Readings in Infant and Child Development .....	2-3
H.Ec. 376—Readings in Family Living .....	2-3
H.Ec. 377—Creative Experiences with Young Children .....	3
H.Ec. 378—Administration of Group Care of Young Children .....	3
H.Ec. 379—Guidance of Nursery School Children .....	6
H.Ec. 380—Prenatal & Infant Development .....	2

**Related Courses:**

Science—Biology, Zoology, or Chemistry .....	6-8
Zool. 134—Human Physiology .....	3
Zool. 241—Elementary Bacteriology .....	4
Psych. 71—Educational Psychology .....	3
Psych. 173—Child Psychology .....	3
Ed. 102—Literature for Children .....	3
Ed. 201—Materials and Methods in Kindergarten-Primary Education .....	2
Humanities—Language, Fine Arts, Philosophy, Literature .....	6-8
Literature elective .....	3
Mus. 72—Music Fundamentals .....	2
Soc. 110—Social Behavior .....	3
Soc. 233—Social Welfare .....	3
Soc. 234—Child Welfare .....	3

**FASHION MERCHANDISING**

Hours

<b>Home Economics Courses:</b>	
H.Ec. 4—Clothing Selection and Construction .....	2
(Except for those who have had H.Ec. 14)	
H.Ec. 212—Flat Pattern Design .....	3
H.Ec. 313—Clothing and Textiles for the Consumer .....	2
H.Ec. 314—Fashion Merchandising .....	3
H.Ec. 315—History of Costume and Textiles .....	2
H.Ec. 316—Tailoring .....	3
H.Ec. 318—Advanced Textiles .....	3
H.Ec. 319—Advanced Studies in Textiles .....	3

**Related Courses:**

Advt. 155—Advertising Principles .....	3
Art 1-2—Drawing and Design .....	2
Art 28—Figure Drawing .....	2
Art 120—Textile Design .....	3
Chem. 3-4—General Chemistry .....	6
Chem. 99—Qualitative Analysis .....	2
Ec. 12 or 102—Principles of Economics .....	3
Fine Arts 17-18—Introduction to Fine Arts .....	6
Literature elective .....	3
Jour. 322—Feature and Magazine Writing .....	3
Mkt. 155—Marketing Principles .....	3
Six hours selected from the following:	
Acct. 75—Elementary Accounting .....	3
Mgt. 211—Industrial Management .....	3
Psych. 162—Psychology of Advertising and Selling .....	3
Sec. St. 220—Business Communications .....	3
H.Ec. 390d—Field Work in Merchandising .....	3-4
Electives in Liberal Arts .....	6

**HOME ECONOMICS EDUCATION\***

Hours

<b>Home Economics Courses:</b>	
H.Ec. 2—Meal Management .....	3
(Except for those who have had H.Ec. 12)..	3

H.Ec. 4—Clothing Selection and Construction .....	2
(Except for those who have had H.Ec. 14)..	2
H.Ec. 161—Home Nursing and Family Health .....	2
H.Ec. 172—The Preschool Child .....	2
H.Ec. 212—Flat Pattern Design or	
H.Ec. 316—Tailoring .....	3
H.Ec. 250—Seminar in Home Economics Education .....	2
H.Ec. 268—Teaching of Home Economics .....	2
H.Ec. 325—Comparative Studies in Foods or	
H.Ec. 327—Quantity Cookery .....	3
H.Ec. 330—Workshop in Home Furnishings or	
H.Ec. 331—Advanced Home Furnishings .....	2-3
H.Ec. 334—Household Equipment .....	3
H.Ec. 368—Demonstration Techniques .....	2

**Related Courses:**

Science—Biology, Chemistry, Physical World, or Zoology .....	6-8
Zool. 241—Elementary Bacteriology .....	4
Fine or Applied Arts or Philosophy .....	6
Psych. 71—Educational Psychology .....	3
Ed. 277—Field Experience .....	1
Ed. 130—Secondary Education .....	3
Ed. 229—Curriculum and Teaching Practices	
Ed. 281—Student Teaching in Secondary Schools .....	7-12
Literature (electives) .....	6

**Electives in Liberal Arts .....** 4-7

\*Ohio University is one of the centers approved by the Ohio State Department of Education for training Vocational Home Economics teachers, and all students who meet the requirement of the above curriculum will be certified for teaching both Vocational and Non-Vocational Home Economics.

**HOME ECONOMICS EXTENSION**

Hours

<b>Home Economics Courses:</b>	
H.Ec. 2—Meal Management .....	3
(Except for those who have had H.Ec. 12)..	3
H.Ec. 4—Clothing Selection and Construction .....	2
(Except for those who have had H.Ec. 14)	2
H.Ec. 161—Home Nursing and Family Health .....	2
H.Ec. 172—The Preschool Child .....	2
H.Ec. 212—Flat Pattern Design or	
H.Ec. 316—Tailoring .....	3
H.Ec. 250—Seminar in Home Economics Education .....	2
H.Ec. 266—Methods in Home Economics Extension .....	3
H.Ec. 268—Teaching of Home Economics .....	2
H.Ec. 325—Comparative Studies in Foods or	
H.Ec. 327—Quantity Cookery .....	3
H.Ec. 330—Workshop in Home Furnishings .....	3
H.Ec. 334—Household Equipment .....	3
H.Ec. 368—Demonstration Techniques .....	2
H.Ec. 370—Family Life Education .....	3

**Related Courses:**

Science—Biology, Chemistry, Physical World, or Zoology .....	6-8
Zool. 241—Elementary Bacteriology .....	4
Fine or Applied Arts, or Philosophy .....	6
Psych. 71—Educational Psychology .....	3
Ed. 277—Field Experience .....	1
Ed. 130—Secondary Education .....	3
Ed. 229—Curriculum and Teaching Practices	
Ed. 281—Student Teaching in Secondary Schools .....	7-12
Literature (electives) .....	6

**Electives in Liberal Arts .....** 4-7

## COMMERCIAL FOOD AND EQUIPMENT\*

Hours

### Home Economics Courses:

H.Ec. 2—Meal Management (Except for those who have had H.Ec. 12) .....	3
H.Ec. 322—Experimental Cookery .....	3
H.Ec. 325—Comparative Studies in Foods .....	3
H.Ec. 326—Advanced Nutrition .....	3
H.Ec. 327—Quantity Cookery .....	3
H.Ec. 334—Household Equipment .....	3
H.Ec. 340—Problems in Foods and Nutrition .....	3
H.Ec. 368—Demonstration Techniques .....	2

### Related Courses:

Advt. 155—Advertising Principles .....	3
Ec. 12 or 102—Principles of Economics .....	3
Chem. 3-4—General Chemistry .....	6
Chem. 99—Qualitative Analysis .....	2
Chem. 113—Organic Chemistry .....	4
Chem. 117—Organic Chemistry Laboratory .....	2
Mkt. 155—Marketing Principles .....	3
Jour. 322—Feature and Magazine Writing .....	3
Zool. 241—Elementary Bacteriology .....	4
Speech 3—Public Speaking .....	2
Literature elective .....	3
Six hours selected from the following:	
Sec. St. 220—Business Communications .....	3
Mkt. 276—Selling and Sales Mgt. ....	3
Ec. 309—Public Utilities .....	2-3
Radio-TV 79—Introduction to Radio TV .....	2
Jour. 247—Newspaper Advertising and Layout .....	3
Jour. 323—Advanced Feature and Magazine Writing .....	2
Psych. 162—Psychology of Advertising and Selling .....	3
Eng. 290—Creative Writing .....	3
Eng. 293—Advanced Composition .....	3
H.Ec. 390b—Home Service Work with Public Utilities .....	3-4

\*An alternate plan is available for those interested in a greater emphasis on science. See your advisor.

## HOME PLANNING AND DECORATION

Hours

### Home Economics Courses:

H.Ec. 330—Workshop in Home Furnishings .....	3
H.Ec. 331—Advanced Home Furnishings .....	2
H.Ec. 334—Household Equipment .....	3

### Related Courses:

Art 1-2—Drawing and Design .....	6
Art 120—Textile Design .....	3
Art 171-172—Basic Interior Design .....	6
Art 271-272—Intermediate Interior Design .....	6
Ec. 12 or 102—Principles of Economics .....	3
Advt. 155—Advertising Principles .....	3
Fine Arts 17-18—Introduction to the Fine Arts .....	6
Mkt. 155—Marketing Principles .....	3
Literature elective .....	3
Science—Biology, Zoology, Physical World, or Chemistry .....	6-8

Six hours selected from the following:

F.A. 175—History of Architecture .....	3
Jour. 322—Feature and Magazine Writing .....	3
Mgt. 211—Industrial Management .....	3
Mkt. 276—Selling and Sales Management .....	3
Psych. 162—Psychology of Advertising and Selling .....	3
Sec. St. 220—Business Communications .....	3

## H.Ec. 390d—Field Work in Retail Merchandising

3-4

Electives in Liberal Arts .....

6-8

## TEXTILES AND CLOTHING WITH DESIGN

Hours

### Home Economics Courses:

H.Ec. 4—Clothing Selection and Construction .....	2
(Except for those who have had H.Ec. 14) .....	
H.Ec. 212—Flat Pattern Design .....	3
H.Ec. 313—Clothing and Textiles for the Consumer .....	2
H.Ec. 314—Fashion Merchandising .....	3
H.Ec. 315—History of Costume and Textile ...	2
H.Ec. 316—Tailoring .....	3
H.Ec. 318—Advanced Textiles .....	3
H.Ec. 319—Advanced Studies in Textiles .....	3

### Related Courses:

Art 1-2—Drawing and Design .....	6
Art 28—Figure Drawing .....	4-6
Art 120—Textile Design .....	3
Chem. 3-4—General Chemistry .....	6
Chem. 99—Qualitative Analysis .....	2
Fine Arts 17-18—Introduction to the Fine Arts .....	6
Literature elective .....	3
Six hours selected from the following:	
Art 113-114—Lettering .....	2-3
Art 247-248—Advertising Design .....	6
Art 301—Individual Problems .....	1-3
Electives in Liberal Arts .....	12

## HOME ECONOMICS WITH JOURNALISM\*

Hours

### Home Economics Courses:

H.Ec. 2—Foods, Nutrition and Meal Planning .....	
(Except for those who have had H.Ec. 12) .....	3
H.Ec. 4—Clothing Selection and Construction .....	
(Except for those who have had H.Ec. 14) .....	2
H.Ec. 161—Home Nursing and Family Health .....	2
H.Ec. 172—The Preschool Child .....	2
H.Ec. 212—Flat Pattern Design or	
H.Ec. 316—Tailoring .....	3
H.Ec. 325—Comparative Studies in Foods .....	3
H.Ec. 330—Workshop in Home Furnishings .....	3
H.Ec. 331—Advanced Home Furnishings .....	2
H.Ec. 334—Household Equipment .....	3
H.Ec. 368—Demonstration Techniques .....	2
H.Ec. 370—Family Life Education .....	3

### Related Courses:

Humanities—Fine Arts, Language, Literature, Philosophy .....	6-8
Science—Biology, Chemistry, Physical World, or Zoology .....	6-8
Jour. 107—Newspaper Reporting .....	3
Jour. 146—Typography, Mechanics, and Make-up .....	
Jour. 322—Feature and Magazine Writing .....	3
Literature elective .....	3
Eight to nine hours selected from the following:	
Jour. 217—Newspaper and Magazine Editing .....	3
Jour. 247—Newspaper Advertising and Layout .....	3
Jour. 323—Advanced Feature and Magazine Writing .....	2
Jour. 375—Specialized Journalism .....	3
Jour. 327—Public Relations Techniques .....	3

Eng. 290—Creative Writing .....	3
Eng. 293—Advanced Composition .....	3
Electives in Liberal Arts .....	10-18

\*Students may combine Journalism with a special area of Home Economics. In such cases, Journalism courses may be substituted for the Business courses as listed under the Clothing and Textiles or the Commercial Food and Equipment curricula.

### HOME ECONOMICS WITH RADIO-TELEVISION\*

	Hours
<b>Home Economics Courses:</b>	
H.Ec. 2—Meal Management	2
(Except for those who have had H.Ec. 12) ..	3
H.Ec. 4—Clothing Selection and Construction	2
(Except for those who have had H.Ec. 14) ..	3
H.Ec. 161—Home Nursing and Family Health	2
H.Ec. 172—The Preschool Child .....	2
H.Ec. 212—Flat Pattern Design or	3
H.Ec. 316—Tailoring .....	3
H.Ec. 325—Comparative Studies in Foods .....	3
H.Ec. 330—Workshop in Home Furnishings .....	3
H.Ec. 331—Advanced Home Furnishings .....	2
H.Ec. 334—Household Equipment .....	3
H.Ec. 368—Demonstration Techniques .....	2
H.Ec. 370—Family Life Education .....	3
<b>Related Courses:</b>	
Humanities—Fine Arts, Languages, Literature, Philosophy .....	6-8
Jour. 107—Newspaper Reporting .....	3
Science—Biology, Chemistry, Physical World, or Zool. ....	6-8
Zool. 241—Bacteriology .....	4
Speech 2—Voice and Articulation .....	2
Speech 34—Oral Interpretation of Literature..	3
<b>HOME AND FAMILY LIVING</b>	
Radio-TV 79—Introduction to Radio Television .....	2
Radio-TV 80—Broadcast Speech .....	2
Literature elective .....	3
Five to six hours selected from the following:	

Radio-Tv 109-110 Broadcast Production Techniques .....	3-3
Radio-TV 216—Continuity Writing .....	3
Radio-TV 326—Advanced Radio Production-Direction .....	3
<b>Electives in Liberal Arts</b> .....	
*Students may combine Radio-TV with a special area of Home Economics. In such cases, Radio-TV courses may be substituted for the Business courses as listed under the Clothing and Textiles or the Commercial Food and Equipment curricula.	3-5

## NON-PROFESSIONAL CURRICULUM

	Hours
<b>Home Economics Courses:</b>	
H.Ec. 2—Meal Management	2
(Except for those who have had H.Ec. 12) ..	3
H.Ec. 4—Clothing Selection and Construction	2
(Except for those who have had H.Ec. 14) ..	3
H.Ec. 161—Home Nursing and Family Health	2
H.Ec. 172—The Preschool Child .....	2
H.Ec. 212—Flat Pattern Design or	3
H.Ec. 316—Tailoring .....	3
H.Ec. 325—Comparative Studies in Foods.....	3
H.Ec. 330—Workshop in Home Furnishings .....	3
H.Ec. 331—Advanced Home Furnishings .....	2
H.Ec. 334—Household Equipment .....	3
H.Ec. 370—Family Life Education .....	3
<b>Related Courses:</b>	
Social Science Electives .....	9
Fin. 201—Personal Finance .....	2
Govt. 106—Current Political and Social Problems .....	2
Humanities—Philosophy, Fine Arts, or Foreign Language .....	6-8
Literature Electives .....	6
Science—Biology, Chemistry, Physical World, or Zool. ....	6-8
Zool. 241—Bacteriology .....	4

# The College of ENGINEERING AND TECHNOLOGY

R. L. Savage, *Dean*  
Irvin P. Badger, *Assistant Dean*

## ENGINEERING

Chemical

Civil

Electrical

Engineering Graphics

Mechanical

(Industrial and Technical Options)

## THE DEPARTMENT OF INDUSTRIAL ARTS

Industrial Arts

Industrial Technology

VISITING COMMITTEE  
COLLEGE OF ENGINEERING AND TECHNOLOGY

Paul Stocker, Chairman  
President of Lorain Products Inc.

A. B. Clarke  
Vice President  
Standard Oil Company (Ohio)

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Technical Director,  
Battelle Memorial Institute

Gordon Herrold, '24  
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Barton A. Holl  
President, Logan Clay Products Co.

George H. Pringle  
President,  
The Mead Corporation

Richard L. Shetler, '43  
General Manager, Defense Program  
Division, General Electric Co.

# THE COLLEGE OF ENGINEERING AND TECHNOLOGY

## DEGREES AND DEGREE REQUIREMENTS

The College of Engineering and Technology offers curricula leading to the Bachelor of Science degree in the fields of engineering and industrial technology.

Candidates for degrees in the College of Engineering and Technology must complete the general University requirements and the curriculum requirements of their particular fields. In addition to those courses which may be necessary to satisfy high-school deficiencies, they must have a minimum of 128 semester hours plus two hours of Physical Education. Courses taken to remove high school deficiencies in the humanities and social sciences may not be used to satisfy the 18 hour college requirement in these fields.

## ENGINEERING

Engineering curricula accredited by the Engineers' Council for Professional Development are offered in Civil Engineering, Electrical Engineering, Mechanical Engineering (Industrial and Technical Options), and Chemical Engineering.

To complete an engineering program in four years, a student must be well-prepared, including four years of high school mathematics and a good foundation in English. A student with deficiencies will require more than four academic years to complete an engineering program.

Deficiencies may be corrected during summer session, or the student may wish to add one or more semesters. If the situation is recognized early, the student may profit considerably, since the extra time at the University would enable him to take extra valuable courses. The courses might include ROTC, Business Administration courses, additional technical electives or general cultural courses.

With planning a student may obtain a degree from the College of Arts and Sciences, the College of Business Administration, or the College of Fine Arts as well as a Bachelor of Science degree in an engineering field upon completion of ten semes-

ters in the University. (See "Degree, Second Bachelor's.")

Since a background in English, the humanities, and the social sciences is essential for an engineer who hopes to advance in his profession, the faculty requires that all candidates for an engineering degree must have completed at least 18 hours of credit in the humanities-social sciences (including English courses numbered above 100). At least six hours credit in each field is required. The student is urged to plan, in consultation with his adviser, a program in these fields which will be most helpful to him. Engineers are frequently chosen for management; hence, it is to the student's advantage to secure the broadest possible education.

## ADMISSION TO AN ENGINEERING PROGRAM

High school students who wish to follow an engineering curriculum should plan to present for admission to the University those subjects which meet the area requirements of the University College, including the additional mathematics listed under "Subjects in High School" in the admissions section of the catalog. High School students are warned that if they have not completed mathematics and other minimum entrance requirements, they should enter the University in June and take preparatory work during the summer session. This will prevent scheduling difficulties, and enable them to complete the program in the normal period. A student should indicate his choice of an engineering curriculum on his official application for admission to the University. This precaution will assure proper guidance in the University College program of study.

To be admitted to an engineering program from the University College, a student must at the time of admission to the engineering program have (1) satisfactorily completed Math. 16—Analytic Geometry and Calculus, and (2) satisfied all University College requirements.

Students who are not properly prepared in high school mathematics must enroll in preparatory mathematics courses. No mathematics course below Math. 16—Analytic

Geometry and Calculus, or its equivalent, is counted toward satisfying the requirements for a degree in engineering.

A student whose point-hour ratio is less than 2.0 (C) for the second semester of the freshman year, or who receives a grade lower than "C" in Math. 16. is admitted to an engineering program on warning.

Every engineering student should be prepared, after completion of his four-year program, to pass the examination given by the Board of Registration for Professional Engineers of the state in which he intends to practice. The Ohio Board allows those who have completed the standard four-year curriculum to appear for examination. It is to the student's advantage to take the examination as soon as possible after graduation.

#### **REQUIREMENTS FOR CONTINUING IN AN ENGINEERING PROGRAM**

A student who has been admitted to an engineering program with a cumulative point-hour ratio of less than 2.0 (C) must remove the grade-point deficiency by the end of the second semester in the engineering program. A grade-point deficiency in engineering subjects will not be permitted after two semesters in an engineering program. Failure to meet these requirements may result in a student being dropped from the engineering program by special action.

#### **CURRICULA IN ENGINEERING**

The faculty has established basic curricula in Civil Engineering, Chemical Engineering, Electrical Engineering, and Mechanical Engineering (Industrial and Technical options).

University requirements pertaining to English composition, physical education, the humanities, social sciences, and speech, which are outlined in the University College section of the catalog, are not repeated in the engineering curricula which follow.

**HUMANITIES-SOCIAL SCIENCE ELECTIVES.** The following subjects will meet the humanities and social science requirements:

**Humanities Elective Group**

English Courses numbered over 100

Courses in Fine Arts

Humanities 7, 8 or 107, 108—

Great Books

A foreign language

Courses in Philosophy

Library Science 191

#### **Social Science Elective Group**

Courses in Economics

Courses in Geography

Courses in Government

Courses in History

Social Science 9, 10

Citizenship in the Modern World

Psychology 1, 101, 261, 361

Courses in Sociology

Human Relations 303, 304—

Human Relations

If a student desires to take other courses to satisfy the humanities and social science elective requirements, he must receive approval from his department chairman and the dean.

### **BACHELOR OF SCIENCE IN CHEMICAL ENGINEERING**

Chemical engineers apply the principles of science, mathematics, and economics to the development, design, and operation of equipment and plants for the chemical industry. Accordingly, this program is planned so that its graduates are familiar with the techniques used in analyzing and solving engineering problems associated with this, and related, industry (petroleum, metallurgical, plastics; etc.). In addition, the program provides an excellent background for graduate study in engineering, science, or business administration.

Initially, study in chemistry, mathematics, physics, and communication skills is emphasized. Gradually, courses in engineering fundamentals are introduced, followed by intensive work in engineering analysis and design. In this latter phase, emphasis is placed upon the application of principles from many fields of study to the solving of engineering problems. Here, computer solutions, process control theory, economics, and similar topics, are stressed.

Electives permit the student to pursue his interest in humanities, social sciences, and technical areas as he plans for his future in research, design, production, management or technical sales.

#### **FRESHMAN PROGRAM**

	Hours
<b>First Semester</b>	
Chem—3 General	4
E.G. 1—Engineering Drawing	3
Math 16—Anal. Geom. & Calc.	5
Eng. 3—Composition	3
Physical Education	1

**Second Semester**

Chem 4, 99—Gen. and Qual.	4
Hum. or Soc. Sci. Elective	3
Math 101—Anal. Geom. & Calc.	4
Eng. 4—Composition	3
Speech 1—Fundamentals	1
Physical Education	1

**SOPHOMORE PROGRAM****First Semester**

Math 102—Anal. Geom. & Calc.	4
Physics 113—General	4
E.E. 107—Basic Elec. Engr. I	3
E.E. 105—Introd. E.E. Lab	1
Ch.E. 101—Intro. Chem Proc.	3
Hum. or Soc. Sci. Elective	3

**Second Semester**

Math 215—Adv. Applied	3
Physics 114—General	4
C.E. 120—Statics & Mech. of Mat.	5
Chem 209—Quant.	4

**JUNIOR PROGRAM****First Semester**

Ch.E. 201—Inter. Ch.E. Calc.	3
Ch.E. 240—Unit Operations	3
Physics 115—General	3
Chem 313—Physical	3
Chem 315—Physical Lab.	2
Hum. or Soc. Sci. Elective	3

**Second Semester**

Ch.E. 202—Thermo & Kinetics	3
Ch.E. 241—Unit Operations	4
Ch.E. 230—Prin. Engr. Matls.	3
Chem 314—Physical	3
C.E. 223—Materials Lab.	1
Hum. or Soc. Sci. Elective	3

**SENIOR PROGRAM****First Semester**

Ch.E. 340—Design & Instr.	4
Ch.E. 312—Unit Op Lab.	2
Ch.E. Option (Appl or Theor)	3
320—Unit Proc (Applied)	
350—Trans Phenom (Theor)	
Chem 201—Organic	3
Hum. or Soc. Sci. Elective	3

**Second Semester**

Ch.E. 341—Design & Instr.	3
Engr. 380—Colloquium	1
Ch.E. Option (Appl or Theor)	3
Applied (300 level course)	
Theoretical (300 level)	
Chem 202—Organic	3
Chem 117—Organic Lab	2
Hum. or Soc. Sci. Elective	3

**NOTES:**

- In general, courses outside the Chemical Engineering sequence can be taken either semester, as offered, provided prerequisites have been completed.
- Satisfactory completion of Chemistry 7 and/or English 7 will satisfy requirements for General Chemistry 3, 4, 99) and for English Composition (3 and 4).
- One English literature course or a modern language must be included in the humanities electives.

## BACHELOR OF SCIENCE IN CIVIL ENGINEERING

The Civil Engineering curriculum is designed to give a broad understanding of the basic sciences and of civil engineering principles and practice in the areas of (1)

behavior of engineering materials, including fluids and soils, (2) design and construction of highways and other transportation facilities, including traffic control, (3) design and construction of structures of all types, and (4) environmental sanitation with particular emphasis on water supply and waste-water disposal. In addition, all engineering students are required to study English composition and speech plus 18 semester hours in the humanities and social sciences.

**FRESHMAN PROGRAM****First Semester**

	Hours
E.G. 1—Eng'r. Drawing	3
Math. 16—Anal. Geom. and Calculus	5
Eng. 3—Composition	3
Chem. 3—General	4
Physical Education	1

**Second Semester**

E.G. 21—Descriptive Geom.	2
Speech 1—Fundamentals	1
Math. 101—Anal. Geom. and Calculus	4
Eng. 4—Composition	3
Chem. 4 & 99—General Chem. and Qual. Analysis	4
Physical Education	1

**SOPHOMORE PROGRAM****First Semester**

Phys. 113—General	4
Math. 102—Anal. Geom. and Calculus	4
C.E. 120—Statics and Mech. of Materials	5
C.E. 223—Materials Lab.	1
Ch.E. 230—Materials	3

**Second Semester**

C.E. 10—Surveying	3
Phys. 114—General	4
Math 215—Adv. Applied	3
C.E. 121—Dynamics	3
Humanities elective	3

**JUNIOR PROGRAM****First Semester**

C.E. 260—Route Eng'r.	3
M.E. 221—Thermodynamics	3
Geol. 103—Eng'r. Geol.	3
C.E. 224—Fluid Mechanics	3
C.E. 240—Fluid M. Lab.	1
Humanities elective	3

**Second Semester**

E.E. 107—Basic	3
E.E. 105—Lab.	1
C.E. 230—Structural Theory	5
C.E. 250—Sewerage and Sew. Treatment	3
C.E. 241—Hydrology	2
Social Science elective	3

**SENIOR PROGRAM****First Semester**

C.E. 261—Transp. Eng'r.	3
C.E. 225—Soil Mechanics	3
C.E. 231—Structural Design	5
C.E. 249—Water Supply	3
Social Science elective	3

**Second Semester**

Technical electives	4
Civil Eng'r. electives	6
Humanities or Social Science electives	6

## BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

Electrical engineering is an extremely diversified field of science and technology. The curriculum in Electrical Engineering reflects this with the inclusion of a strong base of science and mathematics as well as general courses in fundamental aspects of electrical engineering. Following these foundation elements, a wide choice of electives in both engineering and science allows preparation for a certain specific area of practice. Alternatively, this elective choice facilitates preparation for further study to the M.S. or Ph.D. level in electric engineering.

### FRESHMAN PROGRAM

	Hours
<b>First Semester</b>	
Chem. 3—General Chemistry .....	4
Eng. 3—Composition .....	3
E.G. 1—Engineering Graphics .....	3
Math 1-6—Anal. Geom. and Calc. ....	5
Speech 1—Fundamentals .....	1
Physical Education .....	1
<b>Second Semester</b>	
Chem. 4, 99—General Chem. and Qual. Anal. ....	4
Eng. 4—Composition .....	3
Math. 101—Anal. Geom. and Calc. ....	4
Physical Education .....	1
Humanities or Soc. Sci. Elective* .....	3

### SOPHOMORE PROGRAM

	Hours
<b>First Semester</b>	
E.E. 105—Introductory Lab. I .....	1
E.E. 107—Basic Elect. Eng. I .....	3
Math 102—Anal. Geom. and Calc. ....	4
Physics 113—General .....	4
Humanities or Soc. Sci. Elec.* .....	3
<b>Second Semester</b>	
E.E. 106—Introductory Lab. II .....	1
E.E. 108—Basic Elec. Engr. II .....	3
C.E. 120—Statics & Mech. of Mat.* .....	5
Math 215—Adv. Applied Math. ....	3
Physics 114—General .....	4

### JUNIOR PROGRAM

	Hours
<b>First Semester</b>	
E.E. 205—Intermediate Lab. I .....	1
E.E. 203—Electromag. Energy Conv. ....	3
E.E. 207—Electronic Devices .....	3
E.E. 221—Electromagnetics and Materials I ..	3
E.E. 231—Linear Systems and Net. I .....	3
Humanities or Soc. Sci. Electives .....	3
<b>Second Semester</b>	
E.E. 206—Intermediate Lab. II .....	2
E.E. 204—Energy Conversion .....	3
E.E. 208—Electronic Circuits .....	3
E.E. 222—Electromag. and Math. II .....	3
E.E. 232—Linear Systems and Net II .....	3
Humanities or Soc. Sci. Elective* .....	3

### SENIOR PROGRAM

	Hours
<b>First Semester</b>	
E.E. 305—Advanced Laboratory I .....	1
Phys. 310 (or M.E. 221) Thermodynamics* .....	3

Technical Elective*	6
Restricted Elective I*** .....	4
Humanities or Soc. Sci. Elec.* .....	3

### Second Semester

E.E. 306—Advanced Laboratory II .....	2
Technical Elective** .....	9
Restricted Elective*** .....	3
Humanities or Soc. Sci. Elective .....	3

\*These courses may be taken at any available time, provided prerequisites have been completed.

\*\*Technical electives may be selected as any non-required 300-level course in E.E., M.E., Ch.E., or with the permission of the Chairman, any 300-level course in mathematics, physics or chemistry. See later sections of this bulletin for complete listing. Faculty advisors should be consulted to arrange an integrated elective sequence.

\*\*\*Usually in mathematics or physical sciences. List of acceptable courses published each semester.

## MECHANICAL ENGINEERING

The technical option in Mechanical Engineering emphasizes machine design and heat engineering. The work of the first two years is general and fundamental and parallels that in the other engineering curricula. The work of the last two years is comprehensive. It includes courses in theory, development, and design of machines and mechanical equipment, and in thermodynamics and its application to steam generators, steam engines and turbines, combustion engines, and refrigeration and air conditioning. To give a well-rounded curriculum, work is included in other fields of engineering, such as fluid mechanics and electrical engineering. Limited specialization is provided for by elective courses.

The industrial option provides the same kind of fundamental engineering background as the technical option, but, instead of focusing the early training on machine design and heat engineering, it emphasizes training in fields leading to careers in industrial engineering and management.

### TECHNICAL OPTION

#### FRESHMAN PROGRAM

	Hours
Chem. 3—General Chemistry .....	4
E.G. 1—Engineering Drawing .....	3
Eng. 3—Composition .....	3
Math. 16—Anal. Geom. & Calc. ....	5
Speech 1—Fundamentals .....	1

### Second Semester

Chem. 4—General Chemistry .....	2
Chem. 99—Qualitative Analysis .....	2
E.G. 21—Descriptive Geometry .....	2
Eng. 4—Composition .....	3
Math. 101—Anal. Geom. & Calc. ....	4
Humanities or Soc. Sc. elective .....	3

**SOPHOMORE PROGRAM**

First Semester	
C.E. 120—Statics & Mech. of Solids Mat.	5
Econ. 101—Principles of	3
Math. 102—Anal. Geom. & Calc.	4
M.E. 213—Metal Processing	2
Phys. 113—General Physics	4
Second Semester	
C.E. 121—Dynamics	3
C.E. 233—Materials Laboratory	1
Ind. A. 16—Metalworking for Engrs.	3
Math. 215—Adv. Appl. Math.	3
Phys. 114—General Physics	4
History Elective	3

**JUNIOR PROGRAM**

First Semester	
C.E. 224—Fluid Mechanics	3
E.E. 105—Intro. Lab. I	1
E.E. 107—Basic Elec. Engr. I	3
M.E. 201—Kinematics	3
M.E. 221—Thermodynamics I	3
M.E. 222—Instrument Lab.	1
Humanities Elective	3
Second Semester	
Ch.E. 211—Materials & Metallurgy	3
E.E. 106—Introductory Lab. II	1
E.E. 108—Transformers & Mach.	3
E.E. 261—Digital Computer Sem.	1
M.E. 223—Thermodynamics II	3
M.E. 302—Dynamics of Mach.	3
Phys. 115—General Physics	3

**SENIOR PROGRAM**

First Semester	
M.E. 224—Thermo. II Lab.	1
M.E. 303—Machine Design I	3
M.E. 314—Heat Transfer	3
M.E. 394—Mechanical Vibrations	3
Technical Elective	3
English Literature Elective	3
Second Semester	
M.E. 229—Heat Power Laboratory	2
M.E. 304—Machine Design II	3
M.E. 380—Colloquium	1
Technical Electives	6
Humanities or Soc. Sc. Elective	3

**TECHNICAL ELECTIVES**

Ch.E. 305—Applied Engineering Statistics	3
C.E. 326—Advanced Strength of Materials	3
E.E. 331—Servomechanisms	3
Math. 216—Elementary Complex Analysis	2
Math. 314—Fourier Series & Part. Differential Equations	2
Math. 318—Digital Computer Programming	3
M.E. 323—Thermodynamics Analysis	3
M.E. 324—Gas Dynamics	3
M.E. 360—Engineering Economy	3
M.E. 386, 385—Problems in Thermal Machinery	4, 4
M.E. 393—Lubrication and Friction	3
M.E. 395—Advanced Thermodynamics	3
M.E. 388—Engineering & Technological Development	3

**INDUSTRIAL OPTION****FRESHMAN PROGRAM**

First Semester	
Chem. 3—General Chemistry	4
Eng. 3—Composition	3

E.G. 1—Engineering Drawing	3
Math. 16—Anal. Geom. & Calc.	5
Speech 1—Fundamentals	1
Second Semester	
Chem. 4—General Chemistry	2
Chem. 99—Qualitative Analysis	2
E.G. 21—Descriptive Geometry	2
Eng. 4—Composition	3
Math 101—Anal. Geom. & Calc.	4
Humanities or Soc. Sc. Elective	3

**SOPHOMORE PROGRAM**

First Semester	
C.E. 120—Statistics and Mech. of Solids	5
C.E. 123—Materials Laboratory	1
Ind. Arts 17—Metalwkg. for Engrs.	3
Math. 102—Anal. Geom. & Calc.	4
Phys. 113—General Physics	4
Second Semester	
C.E. 121—Dynamics	3
Econ. 101—Principles of	3
Math. 215—Adv. Applied Math.	3
M.E. 213—Metal Processing	2
Phys. 114—General Physics	4
Humanities or Soc. Sc. Elective	3

**JUNIOR PROGRAM**

First Semester	
Ch.E. 211—Mtls. & Metallurgy	3
Ch.E. 305—Appl. Engr. Statistics	3
E.E. 105—Introductory Lab. I	1
E.E. 107—Basic Elec. Engr. I	3
E.E. 261—Digital Computer Sem.	1
Mgt. 211—Industrial Management	3
History Elective	3
Second Semester	
Acct. 111—Industrial Accounting	3
E.E. 106—Introductory Lab. II	1
E.E. 108—Transformers & Mach.	3
Mgt. 321—Motion & Time Study	3
M.E. 201—Kinematics	3
M.E. 221—Thermodynamics I	3
M.E. 222—Instruments Laboratory	1

**SENIOR PROGRAM**

First Semester	
M.E. 303—Machine Design I	3
M.E. 360—Engineering Economy	3
Industrial Elective	3
Technical Elective	3
Second Semester	
Mgt. 301—Production Management	3
M.E. 304—Machine Design II	3
M.E. 370—Industrial Plant Design	3
M.E. 380—Colloquium	1
Industrial Elective	3
Humanities or Soc. Sc. Elective	3

**TECHNICAL ELECTIVES**

	Hours
C.E. 224—Fluid Mechanics	3
E.E. 361—Analog Computer Seminar	1
M.E. 223—Thermodynamics II	3
M.E. 227—Steam Power Plants	3
M.E. 302—Dynamics of Machinery	3
M.E. 371—Models in Operations Research	3
M.E. 393—Lubrication and Friction	3
M.E. 394—Mechanical Vibrations	3
M.E. 395—Advanced Thermodynamics	3
Phys. 115—General Physics	3
Any 300-Level—Mathematics Course	...

**INDUSTRIAL ELECTIVES**

Econ. 320—Organization & Structure of Industry .....	3
Econ. 325—Economic Policy and Industrial Organization .....	3
Econ. 333—Economics of the Firm .....	3
Econ. 335—Labor Economics .....	3
Mgt. 308—Production & Planning Control .....	3
Mgt. 325—Industrial Relations .....	3
Mgt. 332—Wage and Salary Administration .....	3
Mgt. 391—Seminar (PERT & Critical Path Methods) .....	3
Psych. 261—Industrial Psychology .....	3
Psych. 361—Seminar in Psychology Problems in Industry .....	3
M.E. 371—Models in Operations Research .....	3
M.E. 390—Special Investigations (Linear Programming) .....	3

## BACHELOR OF SCIENCE IN INDUSTRIAL TECHNOLOGY

The purpose of this curriculum is to develop prospective industrial employees who will have a general knowledge of the pattern of operation and common manufacturing processes of modern industry.

Some of the required courses are intended to develop an understanding of the economic and legislative controls within which industry operates; others deal with problems of the worker in his relationships with labor groups and management; and laboratory courses give practice with tools and machines for the development of technical knowledge and skill related to manufacturing and production.

## FRESHMAN PROGRAM

## Hours

First Semester	
Eng. 3—Composition .....	3
Speech 1—Fundamentals .....	1
Physical Education .....	1
Physics 5—Introduction .....	4
Econ. 11—Principles .....	3
E.G. 1—Engineering Drawing .....	3
Ind. A. 15—Metal Form & Join .....	3

## Second Semester

Eng. 4—Composition .....	3
Physical Education .....	1
Physics 6—Introduction .....	4
Econ. 12—Principles .....	3
Ind. A. 50—Wood Industry .....	3

## SOPHOMORE PROGRAM

Mgt. 211—Industrial .....	3
Math. 15—Algebra & Trig. .....	5-6
Ind. A. 16—Mach. Metal .....	3
Ind. A. 101—Ceramics .....	2
Ind. A. 132—Ind. Electricity .....	3
Second Semester	
Acct. 111—Industrial .....	3
E.G. 3—Slide Rule .....	1
Psych. 1 or 101—General .....	3
Ind. A. 135—Basic Electronics .....	3
Ind. A. 144—Graphic Arts Proc. .....	3
Ind. A. 190—Materials of Industry .....	3

## JUNIOR PROGRAM

First Semester	
Govt. or Hist. Elective .....	3
E.G. 115—Machine Drafting .....	3
Chem. 3—General .....	4
Ind. A. 221—Power Applications .....	3
Restricted Electives (Right) .....	3-4
Second Semester	
Mgt. 301—Production .....	3
Sec. St. 220—Business Commun. .....	3
Chem. 4 and 99 .....	4
Restricted Electives (Right) .....	6-7

## SENIOR PROGRAM

First Semester	
Business Law 255 .....	3
Humanities Elective .....	3
Restricted Electives .....	8-9
Electives .....	2-3
Second Semester	
Mgt. 321—Motion & Time Study .....	3
Humanities Elective .....	3
Restricted Electives .....	5-6
Electives .....	5-6

## TEACHING INDUSTRIAL ARTS

Students who desire to teach Industrial Arts should enroll for the degree Bachelor of Science in Education. Requirements of the State Department of Education are listed under "Teaching Certificates" in the College of Education section of the catalog.

# The College of FINE ARTS

Jack Sherman Morrison, *Dean*

## THE SCHOOL OF ARCHITECTURE

James Ingraham Clark, *Director*  
Architecture

## THE SCHOOL OF DRAMATIC ART AND SPEECH

Claude E. Kantner, *Director*  
Dramatic Art  
Radio-Television  
Public Address  
Speech and Hearing Therapy

## THE SCHOOL OF MUSIC

Karl Ahrendt, *Director*  
Applied Music  
Music Education  
Music History and Literature  
Music Therapy  
Theory and Composition

## THE SCHOOL OF PAINTING AND ALLIED ARTS

Frederick D. Leach, *Director*  
Art Education  
Art History  
Design  
Painting and Drawing  
Photography  
Sculpture and Ceramics

VISITING COMMITTEE  
COLLEGE OF FINE ARTS

John W. Galbreath, Chairman  
Columbus, Ohio

Arnold Blanch  
Artist

Marc Connelly  
Playwright

Bernard Davis  
President, Miami Museum  
of Modern Art

Sylvia Regan Ellstein  
Playwright

Margaret Jane Fischer  
Patroness of the arts, New York

Yousuf Karsh  
Photographer

Richard O. Linke, '41  
The Mayberry Enterprises

James M. Lister  
Director, Urban Renewal and Housing  
Cleveland, Ohio

Jeanne Cagney Morrison  
Actress

T. Cicchino Raymond  
Professor, Harvard University

Jean Renior  
Motion picture producer

John Rood  
Sculptor

Mrs. Ben Shahn  
Artist

Robert Ward  
Managing Editor, Galaxy Music Corp.

Blanche Yurka  
Actress

Dr. K. Brantley Watson  
Vice President, Personnel (Human  
Relations) McCormick & Co.

# THE COLLEGE OF FINE ARTS

The College of Fine Arts includes the School of Architecture, the School of Dramatic Art and Speech, the School of Music, and the School of Painting and Allied Arts. Offered is a broad, cultural education in the fine arts and special training in the following departments: Architecture, Dramatic Production, Radio-Television, Public Address, Speech and Hearing Therapy, Applied Music, Music History and Literature, Music Theory and Composition, Music Education, Music Therapy, Design, Painting and Drawing, Photography, Art History and Appreciation, Sculpture and Ceramics, and Art Education.

The degree granted upon completion of the prescribed curriculum in the School of Architecture is the Bachelor of Architecture. The degree Bachelor of Fine Arts is granted upon completion of a program in the School of Dramatic Art and Speech, School of Music, or School of Painting and Allied Arts.

Candidates for degrees in the College of Fine Arts complete the general graduation requirements of the University. Candidates for the Bachelor of Fine Arts degree must complete a minimum of 124 semester hours, and for the Bachelor of Architecture degree a minimum of 165 semester hours, with a point-hour ratio of 2.0 (C) on all hours attempted, but including only the final hours and points in repeated courses. Candidates for the Bachelor of Fine Arts degree must have a point-hour ratio of 2.0 on all hours in the field of specialization. Candidates for the Bachelor of Architecture degree must have at least a 2.0 in each course in Architecture. For a student with transferred credit, this rule applies to his cumulative record, which includes transferred credits, and to his Ohio University record, exclusive of transferred credits. These requirements include the program of the University College.

## BACHELOR OF ARCHITECTURE

SCHOOL OF ARCHITECTURE. The School of Architecture offers one curriculum providing education and training for

the professional practice of architecture. The School is a member of the Association of Collegiate Schools of Architecture and the curriculum conforms to the general requirements of the National Architectural Accrediting Board, in a minimum five year sequence. The curriculum provides training in the essential skills and professional competence supported by study of the liberal arts, social sciences and related fine arts.

Beginning in the fall of 1965, entering freshmen intending to study architecture will be required to take the Architectural School Aptitude Test administered at various test centers throughout the United States by the Educational Testing Service of Princeton, New Jersey. The Architectural School Aptitude Test is sponsored by the Association of Collegiate Schools of Architecture for use by most architectural schools in the selection of students. It also serves to aid the student in recognizing his talents and needs while organizing his course of study. A satisfactory score will be required of all students who apply for the upper division degree program in architecture.

At the end of the sophomore year the Dean of the College and faculty of the School of Architecture will select a limited number who will be admitted to the upper division (third, fourth, and fifth years) of the School of Architecture as candidates for the professional architectural degree, Bachelor of Architecture.

The course of study in the lower division (freshman and sophomore years) serves also as a basis for the four-year professional curricula in other fields of design offered in the College of Fine Arts.

Students are urged to acquire practical experience in offices of architects or on construction projects during vacation period before graduation.

The degree Bachelor of Architecture is the professional degree recognized by the state registration boards for admission to the licensing examinations after suitable experience in architects' offices for the period required by the state law. The course prepares the assistant in this practical training period.

**PROFESSIONAL CURRICULUM IN  
ARCHITECTURE**

**Lower Division**

**FRESHMAN PROGRAM**

**First Semester**

	Hours	
Eng. 3—Composition	3	
Math. 15—Freshman	5	
F. A. 17—Intro. to Fine Arts	3	
Arch. 11—Intro. to Arch.	3	
Physical Education	1	
Speech 1—Fundamentals	1	
	<b>16</b>	

**Second Semester**

	Hours	
Eng. 4—Composition	3	
Math 16—Analytical Geom. & Calc.	5	
F. A. 18—Intro. to Fine Arts	3	
Arch. 12—Basic Design	4	
Physical Education	1	
	<b>16</b>	

**SOPHOMORE PROGRAM**

	Hours	
Eng. 101—English Lit.	3	
Phys. 5—Introduction	4	
Ec. 11—Principles	3	
Arch. 111—Basic Design	4	
F. A. 175—History of Arch.	3	
	<b>17</b>	

**Second Semester**

	Hours	
Eng. 102—English Lit.	3	
Arch. 181—Theory of Construction	2	
Ec. 12—Principles	3	
Arch. 112—Sophomore Design	5	
F. A. 176—History of Arch.	3	
	<b>16</b>	

**Upper Division**

**JUNIOR PROGRAM**

	Hours	
Fine Arts Minor	3	
Social Science Minor	3	
Arch. 255—Design	5	
Arch. 279—Materials of Constr.	3	
Arch. 281—Structural Design	3	
	<b>17</b>	

**Second Semester**

	Hours	
Fine Arts Minor	3	
Arch. 256—Design	5	
Social Science Minor	3	
Arch. 284—Mechanical & Electrical Equipment of Bldgs.	3	
Arch. 282—Structural Design	3	
	<b>17</b>	

**SENIOR PROGRAM**

	Hours	
Social Science Minor 1	3	
Arch. 375—19th Cent. Arch.	3	
Arch. 284—Construction Draw.	3	
Arch. 385—Design	5	
Electives	3	
	<b>17</b>	

**Second Semester**

Earth Science 111	3	
Arch. 370—Civil Development	3	
Arch. 376—20th Cent. Arch.	3	
Arch. 388—Professional Practice	3	
Arch. 386—Design	5	

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**FIFTH YEAR PROGRAM**

**First Semester**

Arch. 311—City Planning	2	
Arch. 395—Advanced Design	5	
Bus. Law 242 or Elective	3	
Real Estate Law	3	
Arch. 381—Advanced Struct.	3	
Electives	2	

18

**Second Semester**

Arch. 312—City Planning	2	
Arch. 396—Bachelor of Arch. Thesis	7	
Elective	3	
Arch. 378—Philosophy of Architecture	2	
Electives	3	

17

**MINORS AND ELECTIVES.** Courses for the Social Science minor must include Sociology, Psychology, Economics and Philosophy. Courses to be taken in the physical sciences depend upon high school credits and marks in science. Courses for the Earth Science minor are selected from general courses in Geography, Geology and Climatology.

The Fine Arts minor is selected from the courses in the history of Theatre, Music, Oratory, or Painting and Sculpture.

Faculty advisers assist in the selection of the Electives from lists of recommended elective courses.

**BACHELOR OF FINE ARTS**

The Bachelor of Fine Arts degree fulfills three functions: to provide the student with specialized training in one of the fine arts; to provide a cultural background through a study of the relationship of all of the arts; and to prepare the student, as far as possible, to become a responsible member of society. To these ends, the program has been kept flexible to meet individual needs. Every effort is made for educational and vocational counseling.

Students working toward the Bachelor of Fine Arts degree must complete a major in one of the schools of the College of Fine Arts and a minor of 18 hours in general courses in the fine arts, including F.A. 17-18—Introduction to the Fine Arts. In addition

to this course, five others are offered from which the student must select two to complete the minor: History of Painting and Sculpture, History of Music, History of Architecture, History of the Visual Theatre, History of Oratory. Six hours of the minor must be in an area outside the School in which the student is pursuing his major. Descriptions of the general courses may be found under "Fine Arts."

As an alternate to the 18-hour minor in history and appreciation, it is possible in certain areas to fulfill the minor requirement by completing F.A. 17-18 and 12 semester hours of applied work in one of the schools of the College of Fine Arts other than that in which a major is being pursued. Before undertaking an alternate minor it is necessary to obtain written permission from the dean of the college.

Students majoring in Speech and Hearing Therapy may substitute a minor in Psychology for the usual minor.

Those who are planning to teach in Ohio should fulfill the minimum requirements for certification by completing the following:

	Hours
Psych. 71—Educational Psychology .....	3
Ed. 125—Purposes and Practices of Education ..	3
Ed. 229—Curriculum and Teaching Practices ..	4
Ed. 277—Field Experience .....	1
A methods course .....	2-3
Student teaching .....	7-12

In addition to the specified minimum requirements, students must complete six hours in social sciences and six hours in mathematics and/or science. Courses taken in the University College in these areas will count towards these requirements.

## MAJORS IN THE SCHOOL OF DRAMATIC ART AND SPEECH

The curriculum of the School of Dramatic Art and Speech provides a general major for those who wish a broad background and also permits more specialized majors in theatre, oral communication in organizations, radio-television, and speech and hearing therapy for those who wish to concentrate their work in one of these areas. The requirements for these specialized majors are, however, based upon the principle that all majors should have certain basic courses designed to develop skill in speaking and provide a general background in the broad field of speech.

In addition, all majors are required to demonstrate adequate mastery of basic voice and articulation skills in a speech proficiency test. A satisfactory rating on this test is required for graduation.

The University College program should include Speech 1, Speech 7, and Fine Arts 17-18. Other courses available to students in the University College are: Speech 3, 25, and 34; Radio-TV 79, 80, and 90, and Dramatic Art 10 and 21.

Majors in all areas must elect six hours of English beyond the University College requirement. Students who plan to teach Speech and English in the public schools should consult with their advisers concerning additional requirements in English, Education, and Psychology.

All majors, excepting those in Speech and Hearing Therapy, must complete a minor of 18 hours in general courses in the Fine Arts. This includes six hours in Fine Arts 17-18—Introduction to the Fine Arts, and six hours selected from Fine Arts 203-204—History of Oratory, and Fine Arts 179-180—History of Visual Theatre. The remaining six hours are to be chosen from Fine Arts 121-122, 123-124, and 175-176. Majors in Speech and Hearing Therapy take Fine Arts 17-18 and complete a minor in Psychology in lieu of the usual minor in Fine Arts.

## MAJOR IN GENERAL SPEECH

	Hours
Speech 3—Public Speaking .....	2
Speech 7—Basic Speech Training .....	2
Speech 25—Principles of Argumentation ..	2
Speech 34—Oral Interpretation of Literature ..	3
Speech 104—Bases of Speech .....	3
Speech 195—Principles of Speech Correction ..	3
Radio-TV 80—Radio Speech .....	2
Dram. A. 10—Introduction to Theatre .....	2

### OPTION 1. WITHOUT A TEACHING CERTIFICATE

Students desiring a general speech major without a teaching certificate should, in addition to the basic courses listed above, complete 23 semester hours divided among Public Address, Theatre, and Radio-Television with a minimum of six hours in each area.

### OPTION 2. WITH A TEACHING CERTIFICATE

Students who plan to teach speech in the high school should consult with their advisers concerning the requirements for cer-

tification and preparation for teaching in a second subject matter area such as history, English, sociology, etc. Students who are completing the requirements for a teaching minor in English may substitute six hours of English for six hours of the required courses in Fine Arts. In addition to the basic courses listed above, the following courses must be taken to complete the major in general speech:

	Hours
Speech 112—Advanced Public Speaking .....	2
Speech 260—Teaching of Speech and Theatre..	3
Speech 305—Group Discussion and Conference Leadership .....	3
Speech 325—Direction of Forensic Programs ..	3
Dram. A. 21—Stage Scenery .....	3
Dram. A. 123—Stage Lighting or elective in public address at 300 level .....	3
Dram. A. 148—Costume and Makeup .....	2
Dram. A. 204—Acting I or Speech 147—Workshop in Speech .....	2-3
Dram. A. 250—Play Direction .....	3
Radio-TV 360—Instructional Methods in Educational Radio-TV .....	3

## MAJOR IN COMMUNICATION FOR ORGANIZATIONS

Communication for Organizations prepares students to aid business, industrial, educational, hospital, and governmental organizations in their internal and interpersonal communication activities.

The faculty planners of this curriculum recognize that communications is an interdisciplinary subject, requiring majors to cross many college and departmental divisions. Students are taught by faculty representing a minimum of eight academic areas. In addition to courses in oral and written communication and organizational communication, the curriculum includes required courses in psychology, sociology, economics, English composition and literature, management, fine arts, and general semantics. Majors also select up to 17 credit hours of electives in either diverse or special fields. They acquire a breadth of education in the cultural and liberal arts through their Fine Arts minor and the elective courses. Although the depth of their professional preparation is in communication, opportunity is also provided for breadth in several behavioral and managerial sciences. Service and research experiences are available through the staff and facilities of the Ohio University Center for Communication Studies.

	Hours
<b>Courses in Speech:</b>	
Speech 3—Public Speaking .....	2
Speech 7—Basic Speech Training .....	2
Speech 25—Principles of Argumentation .....	2
Speech 104—Bases of Speech .....	3
Elective to be chosen from Speech 34, 195, 312 or Radio-TV 105, 80, 301 or Dram. A. 10, 105, 230, 231 .....	2-3
Speech 110—Parliamentary Procedure .....	1
Speech 112—Advanced Public Speaking .....	2
Speech 305—Group Discussion and Conference Leadership .....	3
Speech 308—Psychology of Speech .....	3
Speech 340—Applications of General Semantics to Speech .....	3
Speech 342—Persuasion and propaganda .....	3
Speech 344—Approaches to the Study of Communication .....	3
Speech 366—Communication in Organizations .....	3
<b>Courses in Related Areas:</b>	
Mgt. 211—Industrial Management .....	3
Psych. 131—Adjustment or 162—Advertising and Selling .....	3
Psych. 303—Learning or 310—Motivation and Emotions .....	3
Psych. 306—Communication .....	3
Sec. St. 220—Business Communications .....	3
Soc. 229—Crowd and Mass Behavior 335—Public Opinion and Mass Communications .....	3

NOTE: Majors in Communication for Organizations should include F.A. 203 and 204—History of Oratory, as one of the minor courses.

## MAJOR IN RADIO AND TELEVISION

	Hours
Speech 3—Public Speaking .....	2
Speech 7—Basic Speech Training .....	2
Speech 34—Oral Interpretation of Literature .....	3
Speech 104—Bases of Speech .....	3
Elective to be chosen from Dram. A. 10, 105, 230, 231, or Speech 25, 112, 147, 195, 305, 309, 312 .....	2-3
Radio-TV 79—Introduction to Radio-TV .....	2
Radio-TV 80—Broadcast Speech .....	2
Radio-TV 105—Electronic Bases of Communication .....	2
Radio-TV 109-110—Broadcast Production Techniques .....	2-3
Radio-TV 201—Broadcasting and the Public .....	3
Two of the following: Radio-TV 216—Continuity Writing (3), Radio-TV 225—Advanced Radio Production-Direction (3), Radio-TV 231—Advanced Television Production-Direction (3) .....	6
Two of the following: Radio-TV 370—Economics of Broadcasting (3), Radio-TV 372—Broadcast Policies and Regulation (3), Radio-TV 375—Broadcast Programming (3), Radio-TV 379—History of Broadcasting (3) .....	6

### NOTES:

1. F.A. 179-180—History of the Visual Theatre, should be included as part of the minor in Fine Arts.
2. Eighteen hours in any combination of the social sciences are also required for majors in Radio-TV. These may include courses taken in the University College.
3. Majors must complete satisfactorily the speech proficiency test or Radio-TV 80 by the end of the sophomore year.
4. Competency in typing is also required.

## MAJOR IN SPEECH PATHOLOGY AND AUDIOLOGY

Students who anticipate obtaining positions as speech and hearing therapists in the public schools of Ohio must include in their program of study certain courses in general education, psychology, and education in order to qualify for a special certificate in this field. Those majors in speech and hearing therapy who are also completing these certification requirements may substitute a minor in Psychology for the minor in Fine Arts. The following curriculum contains all of the requirements (excepting certain University College requirements) for a Bachelor of Fine Arts degree with a major in Speech Pathology and Audiology and a special certificate.

Speech 3—Public Speaking .....	2
Speech 7—Basic Speech Training .....	2
Speech 25—Principles of Argumentation or Speech 34—Oral Interpretation of Literature .....	2-3
Radio-TV 105—Electronic Bases of Communication .....	2
Speech 195—Introduction to Speech Correction .....	2
Speech 196—Phonetics I .....	3
Speech 267—Anatomy of Speech and Hearing Mechanism .....	3
Speech 268—Speech Science .....	3
Speech 269—Language Development .....	3
Speech 270—Stuttering I .....	3
Speech 271—Clinical Audiometry .....	3
Speech 272—Disorders of Articulation and Voice .....	3
Speech 321—Diagnostic Procedures .....	3
Speech 322—Neurological Disorders of Language and Speech .....	3
Speech 323—Auditory Rehabilitation .....	3
Speech 347—Practicum in Diagnosis and Therapy .....	1

### GENERAL EDUCATION

Fine Arts 17-18—Introduction to Fine Arts .....	6
Science or Mathematics .....	6-8
(Zoology 3-4 is recommended but optional)	
English Literature .....	6
Social Studies (Not including Psychology) .....	6
Electives in Fine Arts, English Literature, Science or Mathematics, Social Studies, Language, Religion, Philosophy .....	6

### PSYCHOLOGY (Required for Certification):

Psych. 1 or 101—Gen. Psychology .....	3
Psych. 71—Educational Psych. .....	3
Psych. 131—Psych. of Adjustment .....	3
Psych. 173—Child Psychology or Ed. 103—Studies of Children .....	3
Psych. 174—Psychology of Adolescence .....	2
Psych. 375—Psychology of Exceptional Children .....	3

### EDUCATION (Required for Certification):

Ed. 125—Purposes and Practices of Education .....	3
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Ed. 229—Curriculum and Teaching Practices .....	4
Speech 262—Speech and Hearing Therapy in the Public Schools .....	2
Ed. 272—Student Teaching .....	12
Ed. 277—Field Experience .....	1

A student who wishes to major in speech and hearing therapy without qualifying for certification should consult with his adviser concerning requirements.

## MAJOR IN THEATRE

	Hours
Speech 3—Public Speaking .....	2
Speech 7—Basic Speech Training .....	2
Speech 34—Oral Interpretation of Literature .....	3
Speech 104—Bases of Speech .....	3
Elective to be chosen from Radio-TV 105, 80, 301 or Speech 25, 112, 147, 195, 305, 309, 312 .....	2-3
Dram. A. 10—Introduction to Theatre .....	2
Dram. A. 21—Stage Scenery .....	3
Dram. A. 99—Movement and Pantomime .....	2
Dram. A. 123—Stage Lighting .....	3
Dram. A. 148—Costume and Makeup .....	2
Dram. A. 207—Historic Costuming for the Stage .....	2
Dram. A. 204—Acting I .....	3
Dram. A. 250—Play Direction .....	3
Electives in Dramatic Art Courses at 300 level .....	4-6
Electives in Dramatic Literature to be chosen from English to Dram. A. 230, 231 .....	6

NOTE: Theatre majors should include F.A. 179-180—History of the Visual Theatre, as one of the minor subjects.

## MAJORS IN THE SCHOOL OF MUSIC

Ohio University is a member of the National Association of Schools of Music. The requirements for entrance and for graduation as set forth in this catalog are in accordance with the standards set up by the association.

The School of Music makes provisions for individual study in all branches of vocal and instrumental music and offers a wide range of courses in the fields of theory and composition, music history and literature, music education, and music therapy. Opportunities are provided for individual participation in student recitals, as well as for ensemble experience in groups such as the chorus, symphony orchestra, symphonic band, chamber music, and the glee clubs.

Six hours of English beyond the University College requirement, or Gen. Studies 7, 8—Great Books, are to be taken by candidates for the degree of Bachelor of Fine Arts with a major in music. A required

minor consists of 18 hours of general courses in the fine arts.

Students who desire to specialize in the field of music education are given the opportunity of preparing for the positions of special music teacher or music supervisor while working toward the degree of Bachelor of Fine Arts. In accordance with state requirements, the major may be vocal, instrumental, or teaching and supervision of elementary music.

Students in the College of Arts and Sciences may major in two areas—music history and literature or music theory. The director of the School of Music should be consulted as the adviser of the course.

Examinations in applied music are given at the end of each semester by a faculty committee in the applied music field concerned. The examinations must be taken by all music majors in those applied music courses which are required for the degree. It should be understood that completion of credit hours in applied music should be in agreement with the proficiency requirements as set up by the School of Music. These requirements may be secured at the office of the School of Music. Majors in applied music are required to present a junior and a senior recital.

Majors are required to attend all recitals and to participate in orchestra, chorus, or band, depending upon their applied major.

The following curricula have been set up for music majors in the College of Fine Arts.

#### **MAJOR IN PIANO (Four-Year Curriculum)**

Twenty-six semester hours in applied music including 18 hours in piano, and eight hours in ensemble (chorus, singers, orchestra, band, or chamber music).

Twenty-six semester hours in the theory and literature of music, including Mus. 3-4, 103-104, 105-106, 201-202, 340, and one of the following: Mus. 313-314, 315-316, 317-318, or 319-320.

##### **Freshman Program**

The University College Program should include:

	Hours
<b>First Semester</b>	
Freshman Piano .....	2
Mus. 3—Theory .....	3
F. A. 17—Introduction to the Fine Arts .....	3
Ensemble .....	1
University College requirements .....	7
	<b>16</b>

16

	Hours
<b>Second Semester</b>	
Freshman Piano .....	2
Mus. 4—Theory .....	3
F. A. 18—Introduction to the Fine Arts .....	3
Ensemble .....	1
University College requirements .....	8
	<b>17</b>

##### **Sophomore Program**

	Hours
<b>First Semester</b>	
Sophomore Piano .....	2
Mus. 103—Dictation and Sight Singing .....	2
Mus. 105—Harmony .....	3
English elective .....	3
Fine arts minor .....	3
Ensemble .....	1
Electives .....	3
	<b>17</b>

##### **Second Semester**

	Hours
Sophomore Piano .....	2
Mus. 104—Dictation and Sight Singing .....	2
Mus. 106—Harmony .....	3
English elective .....	3
Fine arts minor .....	3
Ensemble .....	1
Electives .....	2
	<b>16</b>

##### **Junior Program**

	Hours
<b>First Semester</b>	
Junior Piano .....	2
Mus. 201—Analysis and Form .....	2
F. A. 123—History of Music .....	3
Ensemble .....	1
Electives .....	7
	<b>15</b>

##### **Second Semester**

	Hours
Junior Piano .....	2
Mus. 202—Analysis and Form .....	2
F. A. 124—History of Music .....	3
Ensemble .....	1
Electives .....	7
	<b>15</b>

##### **Senior Program**

	Hours
<b>First Semester</b>	
Senior Piano .....	3
Mus. 340—The Literature of Piano Music .....	2
Advanced music theory elective .....	2
Ensemble .....	1
Electives .....	7
	<b>15</b>

##### **Second Semester**

	Hours
Senior Piano .....	3
Advanced music theory elective .....	2
Ensemble .....	1
Electives .....	8
	<b>14</b>

#### **MAJOR IN ORGAN (Four-Year Curriculum)**

	Hours
<b>First Semester</b>	
Freshman Piano .....	2
Mus. 3—Theory .....	3
F. A. 17—Introduction to the Fine Arts .....	3
Ensemble .....	1
University College requirements .....	7
	<b>16</b>

16

	Hours
<b>Second Semester</b>	
Freshman Piano .....	2
Mus. 4—Theory .....	3
F. A. 18—Introduction to the Fine Arts .....	3
Ensemble .....	1
University College requirements .....	8
	<b>14</b>

	Hours
<b>Second Semester</b>	
Freshman Piano .....	2
Mus. 4—Theory .....	3
F. A. 18—Introduction to the Fine Arts .....	3
Ensemble .....	1
University College requirements .....	8
	<b>14</b>

Forty-two semester hours in the theory and literature of music including: Mus. 3-4, 103-104, 105-106, 201-202, 317-318, 273, 375, 367, 368, 381 and either 315-316 or 319-320.

**Freshman Program**

The University College Program should include:

Hours

**First Semester**

Organ	2	
Piano	1	
Mus. 3—Theory	3	
Ensemble	1	
F. A. 17—Intro. to the Fine Arts	3	
Eng. 3—Composition	3	
Speech 1—Fundamentals	1	
Phys. Ed.	1	
		<u>15</u>

**Second Semester**

Organ	2	
Piano	1	
Mus. 4—Theory	3	
Ensemble	1	
F. A. 18—Intro. to the Fine Arts	3	
Eng. 4—Composition	3	
Phys. Ed.	1	
Elective	3	
		<u>17</u>

**Sophomore Program**

First Semester		
Organ	2	
Mus. 103—Dictation and Sight Singing	2	
Mus. 105—Harmony	3	
Ensemble	1	
F. A. 121 (or 175 or 179)	3	
Eng. 285 (or Hum. 7 or 107)	3	
Hist. 1 (or Psych. 1)	3	
		<u>17</u>

**Second Semester**

Organ	2	
Mus. 104—Dictation and Sight Singing	2	
Mus. 106—Harmony	3	
Ensemble	1	
F. A. 122 (or 176 or 180)	3	
Hum. 8 or 108	3	
Hist. 2 (or Psych. 2)	3	
		<u>17</u>

**Junior Program**

First Semester		
Organ	2	
Voice	1	
Mus. 201—Analysis and Form	2	
Mus. 317—Counterpoint	2	
Mus. 273—Conducting	2	
Ensemble	1	
F. A. 123—History of Music	3	
Electives	3	
		<u>16</u>

**Second Semester**

Organ	2	
Voice	1	
Mus. 202—Analysis and Form	2	
Mus. 318—Counterpoint	2	
Mus. 375—Advanced Conducting	2	
Ensemble	1	
F. A. 124—History of Music	3	
Electives	3	
		<u>16</u>

**Senior Program**

<b>First Semester</b>		
Organ	3	
Mus. 367—Counterpoint	2	
Mus. 381—Research	3	
Ensemble	1	
Mus. 315—Adv. Harmony (or Mus. 319)	2	
Electives	4	
		<u>15</u>

**Second Semester**

Organ	2	
Mus. 368—Adv. Fugue	2	
Mus. 381—Research	3	
Ensemble	1	
Mus. 316—Adv. Harmony (or Mus. 320)	2	
Electives	4	
		<u>15</u>

## Suggested electives:

French 1-2 or 101-102; German 1-2 or 101-102; Phil. 104; Phil. 107; Mus. 344; Mus. 374.

**MAJOR IN VOICE  
(Four-Year Curriculum)**

Thirty semester hours in applied music, including 18 hours in voice, four hours of piano, and eight hours in ensemble (chorus, singers).

Twenty-two semester hours in the theory and literature of music including Mus. 3-4, 103-104, 105-106, 201-202, and 337 or 339.

**Freshman Program**

The University College Program should include:

Hours

<b>First Semester</b>		
Freshman Voice	2	
Mus. 3—Theory	3	
F. A. 17—Introduction to the Fine Arts	3	
Ensemble	1	
University College requirements	7	
		<u>16</u>

**Second Semester**

Freshman Voice	2	
Mus. 4—Theory	3	
F. A. 18—Introduction to the Fine Arts	3	
Ensemble	1	
University College requirements	8	
		<u>17</u>

**Sophomore Program**

<b>First Semester</b>		
Sophomore Voice	2	
Secondary Piano	1	
Mus. 103—Dictation and Sight Singing	2	
Mus. 105—Harmony	3	
English elective	3	
Fr. 1 or 101—Beginning or Intermediate French	4	
Ensemble	1	
		<u>16</u>

<b>Second Semester</b>	
Sophomore Voice .....	2
Secondary Piano .....	1
Mus. 104—Dictation and Sight Singing .....	2
Mus. 106—Harmony .....	3
English elective .....	3
Fr. 2 or 102—Beginning or Intermediate French .....	4
Ensemble .....	1
	16

	<b>Junior Program</b>
<b>First Semester</b>	
Junior Voice .....	2
Secondary Piano .....	1
Mus. 201—Analysis and Form .....	2
F. A. 123—History of Music .....	3
Ger. 1 or 101—Beginning or Intermediate German .....	4
Ensemble .....	1
Electives .....	4
	17

	<b>Second Semester</b>
Junior Voice .....	2
Secondary Piano .....	1
Mus. 202—Analysis and Form .....	2
F. A. 124—History of Music .....	3
Ger. 2 or 102—Beginning or Intermediate German .....	4
Ensemble .....	1
Electives .....	3
	16

	<b>Senior Program</b>
<b>First Semester</b>	
Senior Vioce .....	3
Fine arts minor .....	3
Ensemble .....	1
Electives .....	8
	15

	<b>Second Semester</b>
Senior Voice .....	3
Mus. 337—The Literature of Vocal Music (2) or Mus. 339—The Evolution of the Opera (3) .....	2-3
Fine arts minor .....	3
Ensemble .....	1
Electives .....	6
	15-16

### MAJOR IN ORCHESTRAL INSTRUMENTS

#### Strings, Woodwinds, Brass, or Percussion (Four-Year Curriculum)

Thirty semester hours in applied music, including 18 hours in major instrument, four hours in piano, and eight hours of ensemble (orchestra, band or chamber music).

Twenty-six semester hours in the theory and literature of music, including Mus. 3-4, 103-104, 105-106, 201-202, 338, and one of the following: Mus. 313-314, 315-316, 317-318, or 319-320.

### Freshman Program

The University College Program should include:

	Hours
<b>First Semester</b>	
Major Instrument .....	2
Mus. 3—Theory .....	3
F. A. 17—Introduction to the Fine Arts .....	3
Ensemble .....	1
University College requirements .....	<u>7</u>
	16

<b>Second Semester</b>	
Major Instrument .....	2
Mus. 4—Theory .....	3
F. A. 18—Introduction to the Fine Arts .....	3
Ensemble .....	1
University College requirements .....	<u>8</u>
	17

### Sophomore Program

<b>First Semester</b>	
Major Instrument .....	2
Secondary Piano .....	1
Mus. 103—Dictation and Sight Singing .....	2
Mus. 105—Harmony .....	3
English elective .....	3
Fine arts minor .....	3
Ensemble .....	<u>1</u>
	15

<b>Second Semester</b>	
Major Instrument .....	2
Secondary Piano .....	1
Mus. 104—Dictation and Sight Singing .....	2
Mus. 106—Harmony .....	3
English elective .....	3
Fine arts minor .....	3
Ensemble .....	<u>1</u>
	15

### Junior Program

<b>First Semester</b>	
Major Instrument .....	2
Secondary Piano .....	1
Mus. 201—Analysis and Form .....	2
F. A. 123—History of Music .....	3
Ensemble .....	1
Electives .....	<u>8</u>
	17

<b>Second Semester</b>	
Major Instrument .....	2
Secondary Piano .....	1
Mus. 202—Analysis and Form .....	2
F. A. 124—Mistory of Music .....	3
Ensemble .....	1
Electives .....	<u>7</u>
	16

### Senior Program

<b>First Semester</b>	
Major Instrument .....	3
Advanced music theory elective .....	2
Ensemble .....	1
Electives .....	<u>10</u>
	16

<b>Second Semester</b>	
Major Instrument .....	3
Advanced music theory elective .....	2
Mus. 338—The Literature of Orchestral Music .....	2
Ensemble .....	1
Electives .....	<u>8</u>
	16

## MAJOR IN MUSIC EDUCATION (Four-Year Curriculum)

Sixteen semester hours in applied music, including completion of voice and piano requirements for vocal majors and required proficiency for the principal instrument for instrumental majors. Instrumental majors must also complete at least three hours in a secondary instrument (if principal instrument is wind, three hours must be in string, and vice versa. The department may recommend substitution of Mus. 261b for two hours of applied strings.) Instrumental majors must further complete piano proficiency and two hours of voice.

Twenty semester hours of theory, including Mus. 3-4, 103-104, 105-106, 201 and 233.

Eighteen semester hours, to constitute the minor, in courses in the fine arts, including F.A. 17-18, and F.A. 123-124.

Eighteen semester hours of music education to include Mus. 261, 263, 265, 266, 267, and 273.

Twenty-nine semester hours of general requirements, including 12 hours in English, Speech 1, two hours in physical education, six hours in social sciences, and six hours in mathematics and/or science, and other courses to fulfill the University College requirements.

Twenty hours in education for completion of certification requirements to include Psych. 1 and 71, Ed. 130 or 125, 229, 272, 281.

Eight hours of ensemble participation (band, chorus, singers, glee clubs, or orchestra).

A special program emphasizing the teaching and supervision of music in the elementary schools is also provided. Students desiring this program should consult the check sheet provided by the music education department.

Total requirements: 124-135 semester hours.

### Freshman Program

The University College Program should include:

	Hours
<b>First Semester</b>	
Eng. 3—English Composition .....	3
F. A. 17—Introduction to the Fine Arts .....	3
Mus. 3—Theory .....	3
Psych. 1—General Psychology .....	3
P. E.—Physical Education .....	1
Applied .....	2
Participation .....	1
	<b>16</b>

### Second Semester

Eng. 4—English Composition .....	3
F. A. 18—Introduction to the Fine Arts .....	3
Mus. 4—Theory .....	3
Speech 1—Fundamentals of Speech .....	1
P. E.—Physical Education .....	1
Applied .....	2
Participation .....	1
Social Science .....	3
	<b>17</b>

### Sophomore Program

#### First Semester

Mus. 103—Dictation and Sight Singing .....	2
Mus. 105—Harmony .....	3
Eng. 101 or 111—English or American Literature .....	3
Psych. 71—Educational Psychology .....	3
Applied .....	2
Participation .....	1
Science/Math .....	3
Ed. 277—Field Experience .....	1
	<b>18</b>

#### Second Semester

Mus. 104—Dictation and Sight Singing .....	2
Mus. 106—Harmony .....	3
Ed. 130—Secondary Education .....	3
Applied .....	2
Participation .....	1
Science/Math. .....	3
Elective .....	3
	<b>17</b>

### Junior Program

#### First Semester

Mus. 261—String Techniques and Materials .....	2
Mus. 263—Wind and Percussion Techniques & Materials .....	2
Mus. 273—Conducting .....	2
F. A. 123—History of Music .....	3
Eng. 102 or 112—English or American Literature .....	3
Applied .....	2
Participation .....	1
	<b>15</b>

#### Second Semester

Mus. 263—Wind and Percussion Techniques and Materials .....	2
Mus. 265—Vocal Techniques and Materials .....	2
Ed. 229—Curriculum and Teaching .....	4
F. A. 124—History of Music .....	3
Applied .....	2
Participation .....	1
Mus. 266—Teaching Music in Elementary Grades .....	3
	<b>17</b>

### Senior Program

#### First Semester

Mus. 233—Instrumentation .....	3
Mus. 201—Analysis and Form .....	2
Mus. 267—Music Supervision and Administration .....	3
Fine arts minor .....	3
Applied .....	2
Participation .....	1
Elective .....	3
	<b>17</b>

**Second Semester**

Ed. 272—Student Teaching in Elementary Grades .....	3
Ed. 281—Student Teaching in Secondary Schools .....	4
Fine arts minor .....	3
Applied .....	2
Participation .....	1
Elective .....	3
Ed. 288—Seminar .....	1-3
	16

**MAJOR IN MUSIC THERAPY  
(Four-Year Curriculum)**

The Music Therapy curriculum is designed to meet requirements of both the College of Fine Arts and the National Association for Music Therapy. The fulfillment of the requirements prescribed by the association permits the graduate to apply for listing with the association as a registered music therapist.

The student is not limited to the subjects and hours listed below; however, this curriculum outlines the minimum requirements.

Total requirements: 135 semester hours to include credit for clinical experience.

**Freshman Program**

	Hours
<b>First Semester</b>	
English 3—Composition .....	3
F. A. 17—Intro. to Fine Arts .....	3
Biological Science Elective .....	3
Mus. 3—Theory .....	3
Speech 1 .....	1
Applied Music .....	2
Ensemble .....	1
P. E. .....	1
	17

**Second Semester**

English 4—Composition .....	3
F. A. 18—Intro. To Fine Arts .....	3
Biological Science Elective .....	3
Mus. 4—Theory .....	3
Applied Music .....	2
Ensemble .....	1
P. E. .....	1
	16

**Sophomore Program**

	Hours
<b>First Semester</b>	
Mus. 103, Dictation and Sight Singing .....	2
Mus. 105, Harmony .....	3
Mus. 263, Wind and Percussion Techniques & Materials .....	2
Sociology 1, Intro. .....	3
Psychology 1, Intro. .....	3
Applied Music .....	2
Ensemble .....	2
	16

**Second Semester**

Mus. 104, Dictation and Sight Singing .....	2
Mus. 106, Harmony .....	3
Mus. 263, Wind & Percussion .....	2
Sociology Elective .....	3
Psychology 71, Educational .....	3
Applied Music .....	2
Ensemble .....	1
	16

**Junior Program**

Mus. 273, Conducting .....	2
F. A. 123—Music History .....	3
Mus. 377—Background of Music Therapy .....	2
English Elective .....	3
Psych. Elective .....	3
Applied Music .....	2
Ensemble .....	1
	16

**Second Semester**

Mus. 261—String Tech. .....	2
F. A. 124—Music History .....	3
English Elective .....	3
Psych. 332—Abnormal .....	3
Mus. 269—Soc. and Rec. Inst. .....	2
Applied Music .....	2
Ensemble .....	1
Mus. 274—Clin. Exp. I .....	1
	17

**Senior Program**

F. A. Minor .....	3
Mus. 374—Psych. Found. of Music .....	3
Psychology Elective .....	3
Sociology 110—Social Beh. .....	3
Applied Music .....	2
Elective .....	2
Ensemble .....	1
	17

**Second Semester**

F. A. Minor .....	3
Mus. 233—Instrumentation .....	3
Mus. 379—Music Therapy .....	2
Mus. 265—Vocal Techniques .....	2
Biological Science Elect .....	3
Applied Music .....	2
Elective .....	2
Ensemble .....	1
	18

In addition to the above course work at Ohio University, the student must complete Music 380, Clinical Experience II, and a six-month internship at an approved hospital for the training of music therapists to be eligible for listing with the National Association of Music Therapy as a Registered Music Therapist (RMT).

**MAJOR IN MUSIC THEORY  
OR COMPOSITION  
(Four-Year Curriculum)**

Twenty-four semester hours in applied music, including required proficiency in the principal instrument, and including eight

hours in ensemble (chorus, singers, orchestra, band, or chamber music). Piano proficiency is required if the principal instrument is not piano.

Forty to forty-four semester hours in the theory and literature of music, including Mus. 3-4, 103-104, 105-106, 201-202, 313-314, 315-316, 317-318, 319-320, 367-368, and 371-372. (Mus. 371-372 is required only of majors in composition.)

#### Freshman Program

The University College Program should include:

	Hours
<b>First Semester</b>	
Applied	2
Mus. 3—Theory	3
F. A. 17—Introduction to the Fine Arts	3
Ensemble	1
University College requirements	<u>7</u>
	<u>16</u>

#### Second Semester

Applied	2
Mus. 4—Theory	3
F. A. 18—Introduction to the Fine Arts	3
Ensemble	1
University College requirements	<u>8</u>
	<u>17</u>

#### Sophomore Program

	Hours
<b>First Semester</b>	
Applied	2
Mus. 103—Dictation and Sight Singing	2
Mus. 105—Harmony	3
Mus. 261—String Techniques and Materials	2
English elective	3
Fine arts minor	3
Ensemble	1
	<u>16</u>

#### Second Semester

Applied	2
Mus. 104—Dictation and Sight Singing	2
Mus. 106—Harmony	3
English elective	3
Fine arts minor	3
Ensemble	1
	<u>16</u>

#### Junior Program

	Hours
<b>First Semester</b>	
Applied	2
Mus. 263—Wind and Percussion Techniques and Materials	2
Mus. 201—Analysis and Form	2
Mus. 315—Advanced Harmony	2
Mus. 317—Counterpoint	2
Mus. 319—Composition	2
F. A. 123—History of Music	3
Ensemble	1
	<u>16</u>

#### Second Semester

Applied	2
Mus. 202—Analysis and Form	2
Mus. 316—Advanced Harmony	2
Mus. 318—Counterpoint	2
Mus. 320—Composition	2
F. A. 124—History of Music	3
Ensemble	1
Electives	<u>3</u>
	<u>17</u>

#### Senior Program

<b>First Semester</b>	
Applied	2
Mus. 313—Orchestration	2
Mus. 367—Counterpoint	2
Mus. 371—Composition*	2
Ensemble	1
Electives	<u>6-8</u>
	<u>15-17</u>

<b>Second Semester</b>	
Applied	2
Mus. 314—Orchestration	2
Mus. 368—Adv. Fugue	2
Mus. 372—Composition*	2
Ensemble	1
Electives	<u>6-8</u>
	<u>15-17</u>

\*Required of majors in composition only.

#### MAJOR IN MUSIC HISTORY AND LITERATURE (Four-Year Curriculum)

Twenty-four semester hours in applied music, including required proficiency in principal instrument, and eight hours ensemble (chorus, singers, orchestra, band, or chamber music). Piano proficiency is required if the principal instrument is not piano.

Twenty-six semester hours in the theory and literature of music, including Mus. 3-4, 103-104, 105-106, 201-202, and six hours chosen from Mus. 337, 338, 339, and 340.

#### Freshman Program

The University College Program should include:

	Hours
<b>First Semester</b>	
Applied	2
Mus. 3—Theory	3
F. A. 17—Introduction to the Fine Arts	3
Ensemble	1
University College requirements	<u>7</u>
	<u>16</u>

#### Second Semester

Applied	2
Mus. 4—Theory	3
F. A. 18—Introduction to the Fine Arts	3
Ensemble	1
University College requirements	<u>8</u>
	<u>17</u>

#### Sophomore Program

	Hours
<b>First Semester</b>	
Applied	2
Mus. 103—Dictation and Sight Singing	2
Mus. 106—Harmony	3
English elective	3
Fine arts minor	3
Hist. 1—Western Civilization in Modern Times	3
Ensemble	1
	<u>17</u>

<b>Second Semester</b>	
Applied	2
Mus. 104—Dictation and Sight Singing	2
Mus. 106—Harmony	3
English elective	3
Fine arts minor	3
Hist. 2—Western Civilization in Modern Times	3
Ensemble	1
	17
<b>Junior Program</b>	
<b>First Semester</b>	
Applied	2
Mus. 201—Analysis and Form	2
F. A. 123—History of Music	3
Fr. 1 or 101—Beginning or Intermediate French	4
Ensemble	1
Elective	4
	16
<b>Second Semester</b>	
Applied	2
Mus. 202—Analysis and Form	2
F. A. 124—History of Music	3
Fr. 2 or 102—Beginning or Intermediate French	4
Ensemble	1
Electives	4
	15
<b>Senior Program</b>	
<b>First Semester</b>	
Applied	2
Music literature elective	4
Cer. 1 or 101—Beginning or Intermediate German	4
Ensemble	1
Electives	4
	15
<b>Second Semester</b>	
Applied	2
Music literature elective	2
Cer. 2 or 102—Beginning or Intermediate German	4
Ensemble	1
Electives	6
	15

## MAJORS IN THE SCHOOL OF PAINTING, AND ALLIED ARTS

The basic program in Drawing and Design is organized to familiarize students with various media and the techniques involved as well as with the need for developing, and imposing, a self-determined discipline toward the production of an aesthetic form.

During the sophomore year, each student will have become familiar with fundamental problems involving the production of a meaningful form; he will also have completed a survey of the history of the fine

arts. At this time he will, together with his adviser, determine for himself the course of study he will follow for the remaining two years. Thus the freshman and sophomore years constitute an extensive program and the junior and senior years a more intensive plan.

This division of the undergraduate degree program is based on the belief that the students, having been well grounded during the first two years of their college careers, are sufficiently mature to help direct their courses of study through their own areas of specialization.

The Bachelor of Fine Arts degree in the School of Painting and Allied Arts requires a minimum of 34 semester hours of work in the School, including three semesters of Drawing and Design (Art 1-2, 101), selected courses from Art 105, 109a, b, 115 and 131, and one semester each of Art 21 and 28. Art 111, 113, and 128 are normally required during the sophomore year. The minor requirement for the B.F.A. degree is met with 18 semester hours of general courses in the fine arts.

Six hours of English beyond the University College requirement, or Gen. Studies 7, 8, Great Books, are to be completed by candidates for the B.F.A. degree.

Those students desiring mastery of the field of painting, sculpture, printmaking, or ceramics, will find little difficulty in planning a program in accordance with their personal objectives as they relate to the demands of the field involved. Other fields of specialization would include the general field of design or concentration in Advertising Design, Fashion Design, Industrial Design, or Interior Design. Programs leading to the realization of competence in all areas can be arranged to suit the individual needs of the student in conference with his adviser. Students majoring in one of the applied design fields should be advised by an instructor in that area.

## MAJOR IN ART

### Freshman Program

	Hours
<b>First Semester</b>	
Art 1—Drawing and Design	3
Art 21—Elementary Sculpture*	2
F. A. 17—Introduction to the F. A.	3
University College requirements	8
	16

Second Semester	
Art 2—Drawing and Design .....	3
Art 28—Figure Drawing* .....	2
F. A. 18—Introduction to the F. A. ....	3
University College requirements .....	8
	16

Sophomore Program

First Semester	
Art 101—Drawing and Design .....	3
F. A. 121—Hist. of Ptg. and Sculp. ....	3
English .....	3
Major Area .....	4-6
Electives .....	2-4
	15-17

Second Semester	
F. A. 122—Hist. of Ptg. and Sculp. ....	3
English .....	3
Major Area .....	7-9
Electives .....	2-4
	15-17

Junior Program

First Semester	
F. A. unspecified .....	3
Major Area .....	8-10
Electives .....	2- 4
	15-17

Second Semester	
F. A. unspecified .....	3
Major Area .....	8-10
Electives .....	2- 4
	15-17

Senior Program

First Semester	
Major Area .....	8-10
Electives .....	5- 9
	15-17

Second Semester	
Major Area .....	8-10
Electives .....	5- 9
	15-17

MAJORS IN ADVERTISING DESIGN

Junior Program

First Semester	
Fine Arts Elective .....	3
Art 247 .....	3
Art 128 .....	3
Art 205 or 209 .....	3
Electives .....	

Second Semester	
Fine Arts Elective .....	3
Art 248 .....	3
Art 205 or Art 209 .....	3
Jour. 348 .....	3
Electives .....	

Senior Program

First Semester	
Art 317 .....	3
Art 328 .....	3
Art 365 .....	3
Advt. 332 .....	3
Electives .....	

Second Semester	
Art 318 .....	3
Art 328 .....	3
Art 365 .....	3
Electives .....	

Electives recommended: Jour. 376, 309, 146

Art 115, 131, 351, 305, 309

Psych. 135

Photog. 133, 77

Advt. 376

Mktg. 311

MAJORS IN INTERIOR DESIGN

Junior Program

Hours

First Semester	
Art 271 .....	3
F. A. 175 .....	3
Art 120 .....	3
Art 301a .....	3
Electives .....	4

Second Semester	
Art 272 .....	3
F. A. 176 .....	3
Art 240b .....	2
Art 301b .....	3
Photog. 77 .....	3
Electives .....	2

Senior Program

First Semester	
Art 371 .....	3
Art 301c .....	3
Art 381 .....	2
Electives .....	9

Second Semester	
Art 372 .....	3
Art 301d .....	3
Art 381 .....	3
Electives .....	8

Recommended electives: Photography 78,  
Weaving 130.

Candidates for the B.F.A. degree with a major in Interior Design should follow the basic program for art majors with the exception that Architecture 11, 12 and Art 171, 172 must be taken in the sophomore year.

Art 301, Individual Problems, has been utilized to provide the Interior Design major with additional coverage as indicated.

MAJORS IN INDUSTRIAL DESIGN

Junior Program

Hours

First Semester	
F.A. Elective .....	3
Art 351* .....	3
Art 301 .....	2
Art 240b .....	2
Art 247 .....	3
Engineering Drawing 1 .....	2
Electives** .....	

Second Semester		Second Semester	
F.A. Elective .....	3	Art 105—Painting .....	3
Art 352* .....	3	Art 123—Jewelry .....	2
Art 301 .....	2	F.A. 122—Hist. of Ptg. & Sculp.	3
Photog. 77 or 133 .....	3	Art 28—Figure Drawing .....	2
Art 240b .....	2	Eng. 102—Eng. Lit. ....	3
Art 231 .....	3	Ed. 125—Purp. & Prac. of Educ. ....	3
Electives .....			
			16

Senior Program	
First Semester	
Art 351* .....	3
Art 301 .....	2
Art 381 .....	2
Electives .....	
Second Semester	
Art 352* .....	3
Art 301 .....	2
Art 381 .....	2
Art 272 .....	3
Electives .....	

\*Art 351 and 352 are combined with 2 hrs. of 301 each semester of the Jr. and Sr. years to achieve a 5 hr. course.

\*\*Electives should include Soc. Psy., Econ., Marketing, and Phil.

## MAJOR IN ART EDUCATION

The program below is designed for those who wish certification as teachers in the public schools while completing requirements for the Bachelor of Fine Arts degree. All required courses are specified and should be taken as listed. Substitution may be made only after consultation with an adviser.

### Freshman Program

First Semester	Hours
Art 1—Drawing & Design .....	3
Art 28—Figure Drawing* .....	2
F.A. 17—Introd. to F.A. ....	3
Psych. 1—General Psychology .....	3
English 3 .....	3
Physical Education .....	1
	15

Second Semester	Hours
Art 2—Drawing & Design .....	3
Art 21—Elementary Sculp. ....	2
F.A. 18—Introd. to F.A. ....	3
Hist. 1—Western Civilization .....	3
English 4 .....	3
Physical Education .....	1
Speech 1 .....	1
	16

### Sophomore Program

First Semester	Hours
Art 101—Drawing & Design .....	3
Art 113—Lettering .....	2
F.A. 121 Hist. of Ptg. & Sculp.	3
Psych. 71—Ed. Psych. ....	3
Eng. 101—Eng. Lit. ....	3
Hist. 101—U.S. to 1865 .....	3
	17

Second Semester		Junior Program	
Art 105—Painting .....	3	Ed. 229—Curric. & Teach. Prac. ....	4
Art 123—Jewelry .....	2	Art 240—Design App. to Mat. ....	3
F.A. 122—Hist. of Ptg. & Sculp.	3	F.A. Minor .....	3
Art 28—Figure Drawing .....	2	Science .....	3
Eng. 102—Eng. Lit. ....	3	Elective .....	3
Ed. 125—Purp. & Prac. of Educ. ....	3		
			16

First Semester		Junior Program	
Art 218—Watercolor .....	3	Art 218—Watercolor .....	3
Art 109 a or b—Prints .....	3	Art 109 a or b—Prints .....	3
F.A. Minor .....	3	F.A. Minor .....	3
Art. 260—Teach. of Art .....	3	Art. 260—Teach. of Art .....	3
Science .....	3	Science .....	3
Elective .....	2	Elective .....	2
			17

Second Semester		Junior Program	
Art 218—Watercolor .....	3	Art 218—Watercolor .....	3
Art 109 a or b—Prints .....	3	Art 109 a or b—Prints .....	3
F.A. Minor .....	3	F.A. Minor .....	3
Art. 260—Teach. of Art .....	3	Art. 260—Teach. of Art .....	3
Science .....	3	Science .....	3
Elective .....	2	Elective .....	2
			17

First Semester		Junior Program	
Ed. 272—Stud. Teach., Elem. ....	3	Ed. 272—Stud. Teach., Elem. ....	3
Ed. 281—Stud. Teach., Sec. ....	4	Ed. 281—Stud. Teach., Sec. ....	4
Art 205—Painting .....	3	Art 205—Painting .....	3
Art 111—Drawing Workshop .....	2	Art 111—Drawing Workshop .....	2
Ed. 277—Field Exp. ....	2	Ed. 277—Field Exp. ....	2
			14

Second Semester		Junior Program	
Art 115—Ceramics .....	3	Art 115—Ceramics .....	3
Art 120—Textiles .....	3	Art 120—Textiles .....	3
Electives .....	9-11**	Electives .....	9-11**
			15-17

\*May be taken either semester.

\*\*May be utilized earlier at advisor's discretion.

## MAJOR IN PHOTOGRAPHY

Candidates for the Bachelor of Fine Arts degree electing photography as a field of concentration follow the regular sequence of photography courses during their freshman and sophomore years with advanced study in commercial and illustrative photography and portraiture.

In addition to a specialized understanding of photographic techniques and practices, a general education in contributing fields is desirable. The successful photographer must appreciate the ideas and interests of those with whom he deals.

A planned course of study should include courses in art history, design, and drawing for technical information contributing di-

rectly to the major interest. From the general educational field, courses in business administration, journalism, and the sciences should be chosen to fit individual needs.

Prospective photography majors should contact a staff member before registration and follow the program outline as closely as possible.

#### Freshman Program

First Semester	Hours
Art 1—Drawing & Design .....	3
Photog. 77—Basic .....	3
F.A. 17—Introd. to F.A. ....	3
University College requirements .....	7
	<hr/> 16

#### Second Semester

Art 2—Drawing & Design .....	3
Photog. 78—Basic .....	3
F.A. 18—Introd. to F.A. ....	3
University College requirements .....	7
	<hr/> 16

#### Sophomore Program

First Semester	Hours
Photog. 143—Processes .....	3
Photog. 145—Workshop .....	3
F.A. 121—Hist. Ptg. & Sculp. ....	3
Electives .....	5
	<hr/> 17

#### Second Semester

Photog. 144—Processes .....	3
Photog. 145—Workshop .....	3
F.A. 122—Hist. of Ptg. & Sculp. ....	3
Art elective .....	3
Electives .....	5
	<hr/> 17

#### Junior Program

First Semester	Hours
Photog. 377—Portraiture .....	3
Fine arts minor .....	3
Electives .....	10
	<hr/> 16

#### Second Semester

Photog. 378—Portraiture .....	3
Photog. 381—Problems .....	3
Fine arts minor .....	3
Electives .....	7
	<hr/> 16

#### Senior Program

First Semester	Hours
Photog. 379—Com. & Illustr. ....	3
Photog. 381—Problems .....	3
Electives .....	7
	<hr/> 13

#### Second Semester

Photog. 380—Com. & Illustr. ....	3
Photog. 381—Problems .....	3
Electives .....	7
	<hr/> 13



Elaborate moving platforms and various audio-visual devices were utilized in the production by the University Theatre of Brecht's, *The Caucasian Chalk Circle*. The epic anti-realistic form of theater advanced by the controversial mid-20th century playwright employs many diverse elements in the promotion of its basic themes. The University Theatre gives a program of major productions each year with tryouts open to all students. Modern American and foreign plays are presented, as well as two plays representative of major periods of dramatic history.

# THE HONORS COLLEGE

Samuel J. Jasper, *Director*

# THE HONORS COLLEGE

## PURPOSE

The purpose of the Ohio University Honors College is to attract superior or gifted students to the University and provide them with opportunities for extra intellectual development which in turn will stimulate them to academic excellence.

The Honors College offers its students the advantages usually associated with smaller liberal arts colleges plus the resources of a large university. The program provides opportunity for each student to develop potential in the broad field of the liberal arts and in a major area of concentration. Small classes plus independent study encourage a personal relationship between faculty members and students, which provides a stimulus to other students and faculty and, in time, to intellectual leadership in the state and in the nation.

## ADMISSION

Students who complete at least one semester of their freshman year with a 3.5 or better average and who indicate a willingness to respond to the challenge of independent study and the quest for excellence are eligible to enter the Honors College program.

A student admitted to the Honors College continues in the College if his interest and academic progress justify it. He may withdraw from the College at his own request.

## PROGRAM

Honors courses for sophomore students are offered in the natural sciences, humanities, social sciences, education, and engineering. These honors courses present a special detailed treatment of the area studied and are available only to students in the College. Each student enrolls in at least two honors courses each semester of his sophomore year. He completes his registration with courses in his major area of concentration plus other courses necessary to satisfy the degree requirements in his particular degree granting college.

Junior students in the Honors College participate each semester in at least three

semester hours of independent reading and/or tutorial study. This study is generally directed by the professor who will serve as the student's senior year thesis adviser. Emphasis in the junior year is focused upon obtaining depth and background knowledge necessary for the senior year thesis.

During the senior year the Honors College student completes the bachelor's thesis and submits to a comprehensive examination (which may be written, oral, or both) principally over the area of the research. The student is required to earn a grade of B or better on the thesis project and a mark of "satisfactory" on the comprehensive examination. Failure to achieve these standards denies the student the opportunity to be a graduate of the Honors College. However, a student disqualified for Honors College graduation retains course credit and grades earned by honors work. Theses completed by students in the Honors College become a part of the permanent collection in the Ohio University Chubb Library.

## PRIVILEGES

In addition to unique academic opportunities, Honors College students are granted special privileges: preferred registration permits maximum course selection, course prerequisites may be waived, special library privileges are available, invitations are offered to meet distinguished campus visitors and lecturers.

Ohio University, justly proud of the achievement of its Honors College students, awards each a dormitory room scholarship throughout the period of program participation. These scholarships are in addition to any other financial support held by the student.

## RECOGNITION

Rewards and recognition come to those who earn them by their own achievement and initiative. Students in the Honors College are given special recognition at various times during their academic career and at the commencement exercises at which the bachelor's degree is conferred.

The honors diploma carries a notation,

"with honors in ....." and the appropriate area shown. In addition, a special certificate of achievement is presented. Finally, transcripts for these students bear an inscription indicating the work done in the Honors College.

## DEPARTMENTAL HONORS PROGRAM

The Departmental Honors Program is offered to give superior students freedom to pursue intensive study in their chosen fields. The aims of the program include acquisition of knowledge in a chosen field, integration of knowledge of one field with that of related fields, development of the ability to carry on independent investigation and research, enhancement of skill in the written expression of the results of reading or investigation, and development of creative talents.

Junior students in all the degree granting colleges at Ohio who have attained a point-hour ratio of 3.0 or better on all work attempted and possess a talent to work independently may become candidates for a degree with honors in their chosen field of study. Notification to those eligible is made by the Honors College at the end of the sophomore year in order to permit planning by the student for his junior year regarding the necessary course work required for the development of the honors program thesis or creative project.

During the senior year, an honors thesis, or completed creative project which receives six semester hours credit is submitted to the Honors College. Also, during the semester in which the student is a candidate for graduation he takes a comprehensive examination over the work in the honors area. A student registered in the program who fails to maintain at least a 3.0 accumulative point-hour ratio is asked to withdraw. If the honors thesis is in progress at this time, credit and grade are received for that part of the work completed. Students not receiving a mark of "satisfactory" on the comprehensive examination are not permitted to graduate with honors in a special field.

A student whose adviser does not grant a grade of B or better for the completed project is disqualified for honors in his field of study but retains the course credit earned

by his honors work. A student who completes an acceptable project is graduated with honors. Suitable notation is made on the student's transcript, on the commencement program, on the diploma, and, in addition a special certificate of achievement is awarded.

## ACADEMIC OPPORTUNITIES FOR ALL STUDENTS

### ADVANCEMENT PLACEMENT

Ohio University participates in the Advanced Placement Program as administered by the College Entrance Examination Board (CEEB). Many high schools offer to their senior students courses which are of college level as outlined by CEEB; upon completion of the course the students are given a CEEB examination. Those high school students doing particularly well on these examinations and who subsequently enroll at Ohio University are awarded University placement and/or credit toward the baccalaureate degree for these CEEB courses.

### PRIZES AND AWARDS

Through the generosity of corporations, foundations, and friends of the University and campus organizations, numerous financial awards have been established for the recognition of high scholastic achievement. Information relating to monetary awards in specific areas of study may be obtained by contacting the Director of the Honors College. Students who receive awards are given recognition by means of the *Ohio University Post* and through an annual awards publication presented in conjunction with the Kennedy Lecture Series.

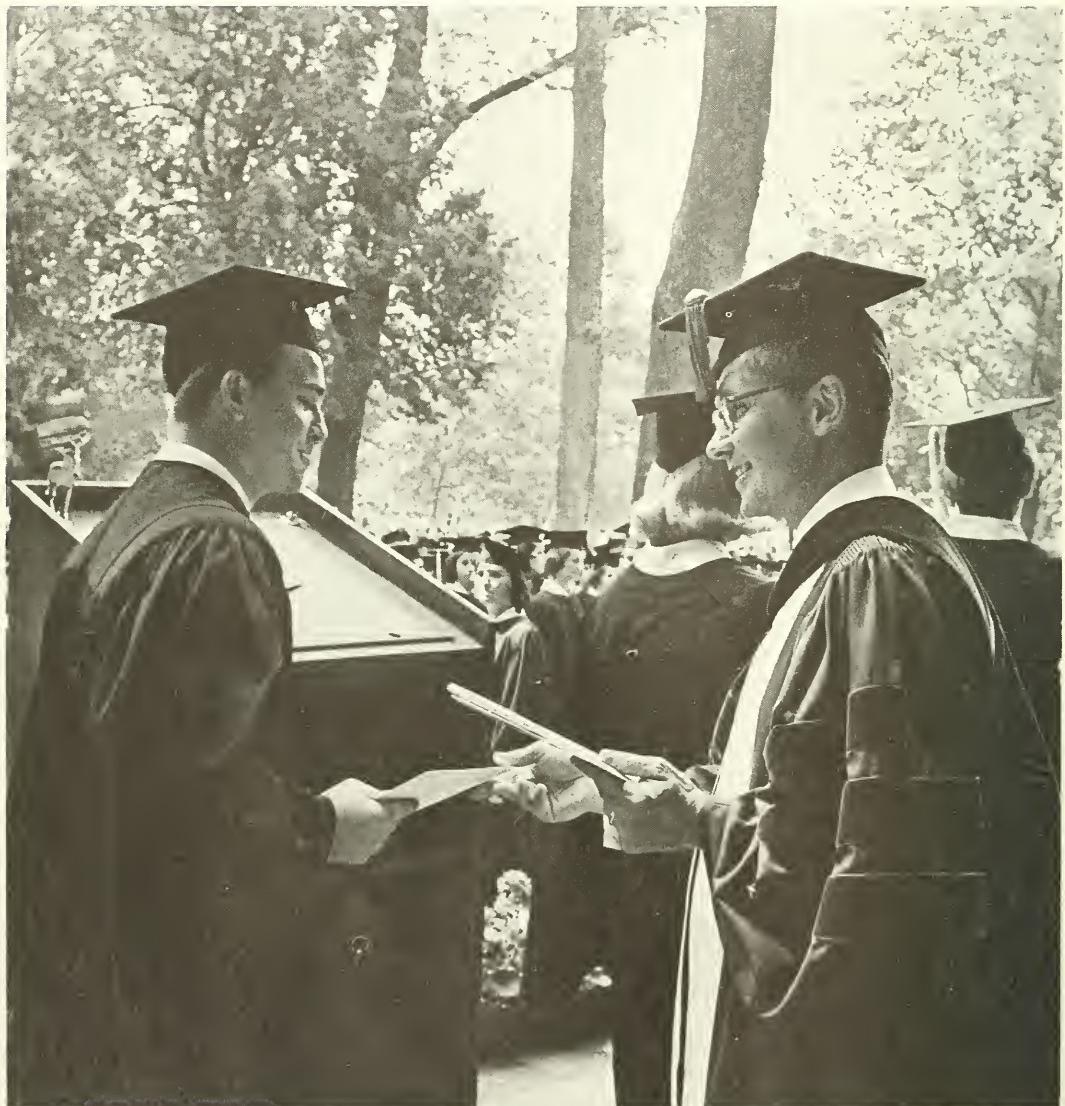
### GRADUATION WITH HONOR

A candidate for the bachelor's degree who is graduated with a point hour ratio of 3.0 up to 3.50 on all hours attempted is distinguished on the commencement program by the notation "with honor;" with 3.50 or above, by the notation "with high honor." A student with transferred credit is similarly distinguished if both his Ohio University record and his cumulative record meet the above requirement.

A candidate who has successfully completed a program of study in honors is distinguished on the commencement pro-

gram by the notation "with honors in .....," with the appropriate indication of field in which he has achieved distinction.

In addition, the diploma for the candidate who is graduated "with honor" carries the notation "cum laude;" "with high honor" the notation "summa cum laude" is used.



*Commencement exercises in June are held on the College Green under the elms. With the enrollment on the main campus expected to reach 25,000 by 1975, the University will be graduating more students in the next ten years than it has in its entire 162-year history.*

# THE GRADUATE COLLEGE

Taylor Culbert, *Dean*  
James M. Gault, *Administrative Assistant*

# THE GRADUATE COLLEGE

The graduate program at Ohio University provides advanced professional training in the area of a student's field of specialization and affords opportunities for the conduct of research and special investigations. The program of graduate study should become an initiation into methods of intensive study and research in some selected area of knowledge. It is the objective of the Graduate College to provide its students with a high degree of professional competence.

The Graduate College confers the degree of Master of Arts, Master of Business Administration, Master of Education, Master of Fine Arts, and Master of Science.

The degree of Doctor of Philosophy is granted in certain selected and accredited areas of study. At present these are Chemistry, Education, Electrical Engineering, English, Fine Arts, Physics, Psychology, Public Address, Radio-Television, and Speech Pathology and Audiology.

## ADMISSION

A student holding a bachelor's degree from an accredited college or university who has attained an undergraduate scholastic point-hour ratio of 2.5 or better on hours attempted, and preferably a 3.0 (B) in the area of the proposed major, will be considered for admission with regular status in the Graduate College. Further supporting evidence of the student's ability is the Graduate Record Examination Admission Test for Graduate Study in Business, Miller Analogies Test, or other college ability tests and letters of recommendation may also be requested.\*

A student holding a bachelor's degree from an unaccredited institution or a person whose undergraduate preparation is deficient will be required to supplement his undergraduate record with a satisfactory score on an acceptable standard college ability test.\*

A student with a master's degree will be considered for admission to graduate study for the doctorate, with the amount of graduate credit accepted by transfer subject to review and recommendation by the graduate committee of the department concerned.

All correspondence pertaining to the ad-

mission of a student to the Graduate College should be addressed to the Graduate College, Ohio University, Athens, Ohio.

Application for admission blanks, together with the \$5 application fee and supporting credentials, including an official transcript from each college or university attended, should be received at least three weeks in advance of registration for the semester or summer term in which the student wishes to begin graduate study.

\*Those who have taken any of these tests are urged to have their scores reported to the Graduate College, Ohio University. Further information about the Graduate Record Examination may be obtained by writing to the Educational Testing Service, Princeton, New Jersey 08540. Applicants in the West Coast region should write to the Educational Testing Service, 1947 Center Street, Berkeley, California 94704.

Vaccination and immunization certification, and a medical history blank completed by a physician are required. These forms will be sent to the student after his application for admission has been approved provisionally. The medical blanks are not required if a student is enrolled for fewer than six hours of credit.

Admission to the Graduate College does not imply admission to candidacy for a degree.

For further information concerning application for living quarters, write the Director of Housing, Ohio University, Athens, Ohio.

## CLASSIFICATION OF STUDENTS

### DEGREE

*Regular.* Students approved by the major department and the Dean of the Graduate College for unqualified admission to graduate study.

*Special.* Students who have some deficiency in entrance requirements. Students with this status may achieve regular status after satisfactory completion of a prescribed program of study to remove deficiencies.

### NON-DEGREE

A student who is in good standing in a graduate school of another university may be admitted as a *transient* student by submitting an application and presenting an official statement of good standing from the dean of the graduate school in which he is

enrolled. A student who wishes to receive graduate credit for a *workshop or institute* must make application for the workshop or institute only. A student who wishes to take a graduate course with no intention of qualifying for a graduate degree must apply for admission to the Graduate College as a *non-degree* student.

Permission to register with any non-degree status as explained above does not constitute regular admission to the Graduate College, and the student must request permission to register each subsequent semester.

#### SENIORS AND GRADUATE STUDY

A student who is within nine hours of completing all requirements for the bachelor's degree at Ohio University may take courses applying toward the master's degree, provided he otherwise meets the requirements of admission, and secures the written recommendation of the dean of his college, the chairman of his major department, and approval of the Dean of the Graduate College. This privilege may also be extended to well-qualified seniors of other colleges who have nine or fewer semester hours to complete. Request for the above privilege must be made in advance of registration through the Graduate College office.

#### EARLY ADMISSION TO THE GRADUATE COLLEGE

A superior student with senior standing may, with the written endorsement of the chairman of his major department and the approval of the Dean of the Graduate College, be enrolled in graduate courses for graduate credit. Under unusual circumstances non-senior students may be considered for this program. The courses may be used to satisfy both undergraduate and master's degree requirements.

## STUDY REGULATIONS

#### ASSIGNMENT TO ADVISERS

A student who qualifies for admission to the Graduate College confers with the department chairman or the chairman of the graduate committee who has supervision over the subject matter in the area of his major interest. The chairman will assign a faculty adviser in the major field to counsel with the graduate student and

prepare the outline of graduate study. A copy of the outline is returned early in the initial term of study to the Graduate College office where it is filed and becomes a part of the record of the graduate student.

#### GRADUATE STUDENT LOAD

The maximum full-time load for a graduate student is 16 credit hours per semester (12 hours in the summer session of eleven weeks). A student wishing to register for extra hours must secure approval of the major adviser and the Dean of the Graduate College.

#### STANDARDS OF WORK

The minimum standard is a grade point average of 3.0 (*B*) on all graduate work attempted. Of all the hours counted toward the satisfaction of degree requirements, no more than 20 per cent can be below *B*. No grades below *C* can be used to satisfy degree requirements.

## THE GRADUATE PROGRAM

Graduate degrees are granted in the following areas:

- Accounting
- Architecture (minor only)
- Art
- Art Education
- Bacteriology
- Botany
- Business Administration
- \*Chemistry
- Classical Languages (minor only)
- Dramatic Art and Speech
  - \*Public Address
  - \*Radio-Television
  - \*Speech Pathology and Audiology
  - Theatre
- Economics
- \*Education
- \*Elementary
- Secondary
- \*Administration and Supervision
- \*Guidance, Counseling, and Student Personnel
- Engineering
- Chemical
- Civil
- \*Electrical
- Mechanical
- \*English Language and Literature
  - \*Linguistics
- \*Fine Arts
- Geography (minor only)
- Geology
- Government
- History
- Home Economics
- Human Relations
- Industrial Arts

Journalism  
 Mathematics  
 Modern Languages  
 French  
 German  
 Russian (minor only)  
 Spanish  
 Music  
 Music Education  
 Philosophy  
 Photography  
 Physical Education and Athletics  
 \*Physics  
 \*Psychology  
 Sociology and Anthropology  
 Zoology  
 \*Ph.D. granting areas

### THE MASTER'S DEGREE

At least 30 semester hours of credit are required for the master's degree. Additional hours may be required by individual departments. A maximum of 8 semester hours of graduate credit with *A* or *B* grades may be accepted by transfer from approved institutions which offer the master's degree, provided the transferred course work is acceptable to the student's adviser and is *not more than five years old*. Credit for courses taken by correspondence is not accepted toward the degree. At least 22 hours of graduate credit must be earned on the campuses of Ohio University. At least one semester or two summer terms (not necessarily consecutive) must be spent in an institutional full time status on the Athens campus. Exceptions must be approved by the Graduate Council. A graduate student who is employed full time may, with the approval of his major adviser and the Dean of the Graduate College, carry a maximum of 6 hours of credit in a semester or a summer session of eleven weeks.

### THE DOCTOR OF PHILOSOPHY DEGREE

A minimum of six semesters of study and research beyond the bachelor's degree is needed to meet the requirements of the doctor's degree. At least two semesters of the doctoral program of study shall be in continuous residence on the Athens campus of Ohio University in an institutional full-time status. One 11-week summer session may be counted for this purpose as one semester. The continuous residence requirement applies to the period of graduate study following the completion of the master's degree or the equivalent of approximately 30 semester hours of graduate study.

## TRANSFER CREDIT

The amount of credit accepted by transfer from another university toward the doctorate will be determined by the graduate committee of the department concerned and the Dean of the Graduate College.

### SPECIFIC REQUIREMENTS FOR THE DEGREES

Detailed information on specific requirements involving admission to candidacy, comprehensive examinations, preparation of the thesis or dissertation, time limit for meeting requirements, and other details of the graduate programs are described in the Bulletin and other publications of the Graduate College. For more explicit information address the Dean of the Graduate College.

## FINANCIAL AIDS

### GRADUATE ASSISTANTSHIPS, TEACHING AND RESEARCH FELLOWSHIPS

A number of graduate assistantships, teaching fellowships, and research fellowships are available in the Graduate College of Ohio University. Persons receiving these appointments are selected on a basis of merit from students who have received the baccalaureate degree from approved institutions and who wish to pursue work leading to graduate degrees.

Graduate assistantships provide a stipend of \$2,200 to \$2,400 for the academic year of two semesters and waiver of all fees (resident and non-resident) with the exception of a \$40 incidental fee. A matriculation fee of \$10 is charged all students on first entrance to Ohio University. The graduate assistant is required to give approximately 18 hours (6 to 8 contact hours in laboratory or lecture) of service weekly to the University, and normally carries 8 to 11 hours of graduate work.

The general registration fee and laboratory fees will also be waived during the summer sessions directly preceding and following the period of a graduate assistant's appointment.

A graduate assistant continuing study for a second year is eligible for consideration for reappointment to the assistantship. The assistant who has completed two semesters

of service with an exceptionally good record may, on the recommendation of his department, be reappointed for a second year at an increased stipend with waiver of the fees as noted above.

Graduate assistantships are usually available to qualified students in the following fields: accounting, art, bacteriology, botany, business administration, chemistry, dramatic art, economics, education, engineering, English language and literature, finance, fine arts, geology, government, history, home economics, human relations, industrial arts, journalism, linguistics, management, mathematics, modern languages, music, philosophy, photography, physical education, physics, psychology, public address, radio-television, sociology, speech pathology and audiology, and zoology.

Teaching fellowships are granted to selected students in advanced graduate study and provide a stipend of \$2,400 to \$4,200, with the usual waiver of fees.

Research fellowships are established on the basis of grants-in-aid to the University for the conduct of research. Appointees to these fellowships must show exceptional aptitude for research. Their obligation involves the promotion of the research program of the department through which the grant is made. Fellows have no instructional service to perform and may normally carry 8 to 11 semester hours of work toward completion of their graduate program. In general, the stipend and waiver of fees will be the same as those of an assistantship.

## APPOINTMENTS IN PERSONNEL WORK

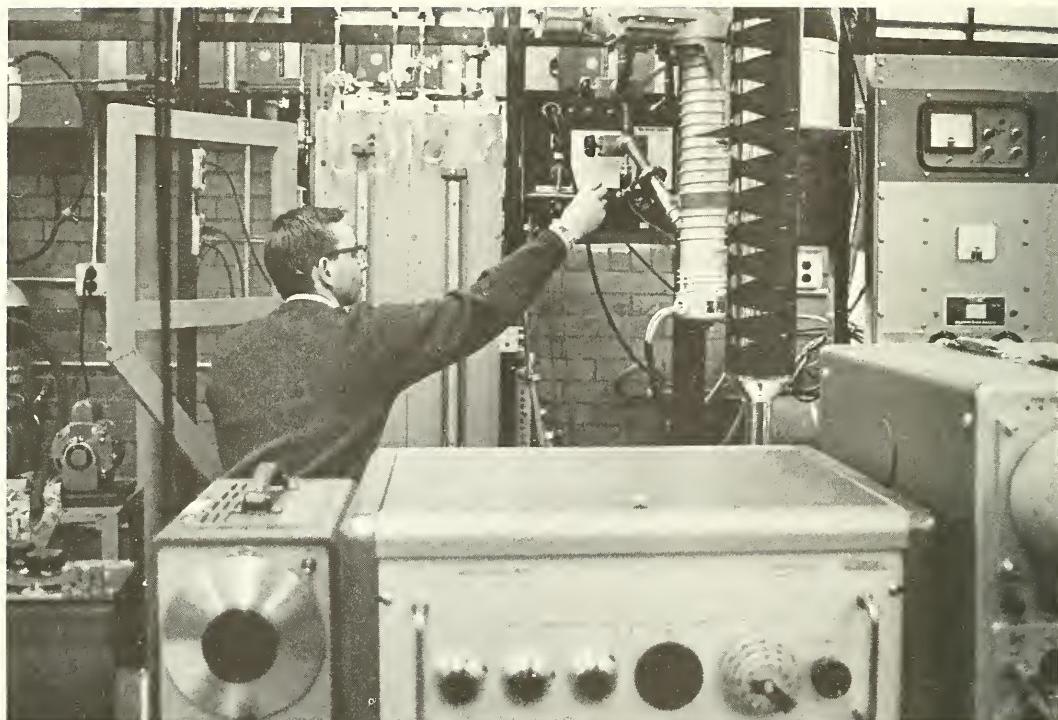
Residence hall assistantships are open annually. Appointments are made on the recommendation of the Personnel Deans. Stipend and other terms are similar to those of other graduate assistants.

Graduate appointments are also available to married men as Resident Directors in the residence halls for men. The compensation for this service is a furnished apartment and board for the Resident Director and his family, and a stipend plus the waiver of fees as indicated for the graduate assistant. The Resident Director will supervise the functions of the residence hall and coordinate the responsibilities of graduate assistants assigned to work with him. He is normally permitted 9 hours of course work per semester.

Applications for all graduate appointments should be filed with the Dean of the Graduate College by March 1. Application blanks may be obtained from the office of the Graduate College.

## SCHOLARSHIPS

University scholarships are available to incoming graduate students who have maintained a 3.0 (B) undergraduate average, and to graduate students who have maintained at least a 3.25 graduate average. These require full-time study and pay the general registration (resident or non-resident) fee. Information may be obtained from the office of the Graduate College, Ohio University, Athens, Ohio.



*Research in chemistry is one of approximately 75 sponsored projects carried out on the Ohio University campus during the academic year 1965-66. A new \$4.5 million science center for graduate level research will be ready for occupancy in early 1967.*



*The most modern techniques of library science will be utilized in the University's new 1,500,000 volume library, scheduled for completion in 1967. The Learning Resources Center to be included in the seven story, six and one half million dollar structure will enable faculty and students to obtain information recorded in any medium.*

# THE DIVISIONS

## OFF-CAMPUS ACADEMIC PROGRAMS

Edward M. Penson, *Dean*

Ralph D. Smith, *Assistant Dean*

## PHYSICAL EDUCATION AND ATHLETICS

William D. Rohr, *Director*

Carl T. Nessley, *Associate Director*

Robert M. Wren, *Assistant Director*  
Intercollegiate Sports

## THE RESERVE OFFICERS TRAINING CORPS

Donald L. Barrett, *P.A.S.*

Cecil C. Helena, *P.M.S.*

## THE SUMMER SESSION

Lloyd I. Watkins, *Director*

# THE DIVISIONS

## OFF-CAMPUS ACADEMIC PROGRAMS

### BRANCHES

The Ohio University branch system was established to meet the increased college enrollment caused by returning World War II veterans. Since that time, it has grown into a significant part of the Ohio University system, bringing education into areas which might not otherwise receive it.

The University has branch campuses in Chillicothe, Portsmouth, Zanesville, Belmont County, Ironton, and Lancaster, with an enrollment of more than five thousand.

The organizational framework and procedures of the branch campuses correspond with those of the Athens campus. The faculty in the branches is composed of (1) teachers from the Athens campus faculty, (2) full-time branch campus faculty, (3) professional people qualified to teach at the university level.

By and large, the branch campuses serve to provide students the first two years of their higher education after which they may relocate to the campus at Athens (or apply for admission to another university) for work toward the baccalaureate degree. The design of course offerings and the selection of qualified faculty are functions of cooperative coordination between the Dean of Off-Campus Academic Programs and the chairman of academic departments on the Athens campus. There is also a Council for Off-Campus Academic Programs composed of seven to nine members of the faculty and administration. The purpose of the Council is to consult with the Office of Off-Campus Academic Programs regarding academic matters.

A limited number of courses are also available on the junior, senior, and graduate levels. If any courses are to be taken for graduate credit, the student first must be admitted to the graduate college.

## AIR FORCE EDUCATIONAL CENTER

The Air Force Educational Center of Ohio University is located at Lockbourne Air Base, Lockbourne, Ohio. Ohio University's organizational and administrative relationship with the Educational Center is identical to the relationship with the six Ohio University branches. The Dean of Off-Campus Academic Programs is directly responsible to the Vice President for Academic Affairs, the President, and the Trustees of Ohio University for the administration of the Education Center. Curriculum and academic policies are the same as those of the branch campuses. A resident on-base Educational Director, responsible to the Dean of Off-Campus Academic Programs, is the local administrative head of the center. Faculty members are selected from area colleges, universities, industry and other professions.

## EXTENSION DIVISION

Extension Classes on and Off-Campus: The assignment of faculty personnel is made by the department chairman or the dean of the college and the Director of the Extension Division.

Extension classes, adult education classes and correspondence courses can be designed to meet several student needs for continuing higher education. Courses may be credit courses or noncredit courses; they may or may not lead to a degree. Courses may be designed to meet the special needs of business, industrial and professional groups as well as individuals. Inquiries should be directed to the Director, Extension Division or the Dean of Off-Campus Academic Programs.

Correspondence Study: Faculty personnel are assigned in the same manner as for extension classes. The student receives study guide and/or text assignments and is required to take mid-course and final examinations. A student enrolling in a correspondence course for credit leading toward a degree must have prior permission of the Dean of his college.

# PHYSICAL EDUCATION AND ATHLETICS

For nearly a century colleges and universities have recognized a responsibility for programs of student health practices, required physical education, recreational activities, intramural sports, or intercollegiate athletics. Ohio University has kept abreast of this educational movement.

Participation in selected physical activities which are harmonious with one's ability and desires contributes to general health, endurance, physical skill, mental and emotional poise, and to interesting recreational forms. These activities should be engaged in throughout life in order to develop and maintain an efficient physiology. When students ignore this phase of their education, they should understand that they are closing doors against many interesting and beneficial activities which would contribute to better living. In addition to purely physical development, sports and athletic programs are rich with possibilities for the acquiring of social intelligence, sportsmanship, recreational skills, and lasting friendships. These qualities fit into the American way of living.

With this in mind the Division of Physical Education and Athletics is pursuing a broad educational program which is designed to fit the diversified interests of all men and women at the University. The functions of the Division fall into the following categories:

## COORDINATION WITH HEALTH CENTER

Close coordination with the program of health services directed by physicians and nurses at the Hudson Health Center.

## REQUIRED COURSES

Two semesters of physical education courses are required for men and women. Within practical limitations of scheduling, students may be elected beyond these two semesters. Subject to exceptions listed by the colleges, men and women may apply four hours of this credit toward degree requirements.

(a) The program for men includes dual, individual and team sports, aquatics, combatives, gymnastics and rhythemics. Upon request physical proficiency and sports tests

may be taken, and, if prescribed standards are met, the requirement may be reduced.

(b) The program for women includes dual, individual and team sports, aquatics, rhythemics, gymnastics, and outing activities.

For additional information on (a) and (b) refer to "Physical Education" in the graduation section of the catalog.

## ADAPTED ACTIVITIES

Men and women who for any medical reason are unable to participate in the regular program are assigned with medical permission to a class where they will be directed in activities adapted to their special needs.

## INTERCOLLEGIATE ATHLETICS

Ohio University is a charter member of the Mid-American Conference which is composed of seven prominent universities in the middle west. The other members are Miami, Toledo, Western Michigan, Kent, Bowling Green, and Marshall.

In the administration, financing, organization and management of the Intercollegiate athletic program, the Division of Physical Education and Athletics adheres to the policies of the National Collegiate Athletic Association and the Mid-American Conference. All students are encouraged and welcomed to try out for any team of their choice. Ohio University teams go into competition thoroughly coached and trained. This training under excellent leadership makes it a privilege and an honor to participate on athletic teams at the University.

Medical attention for athletic squads is under the direction of a team physician. He has at his disposal the personnel and facilities of a modern university hospital, and is aided by a qualified and experienced trainer.

University teams are organized in the following sports: football, basketball, baseball, track, wrestling, cross country, golf, soccer, tennis, swimming and ice hockey. The ice hockey team is a member of the Ohio Intercollegiate Hockey Association.

For women, intercollegiate competition is scheduled in field hockey, basketball, softball, golf, and tennis. Women adhere to policies recommended by the Division for Girls' and Women's Sports and by the Women's Physical Education Section of the Ohio College Association.

## INTRAMURAL SPORTS AND RECREATIONAL ACTIVITIES

The Division offers an extensive program of intramural sports for men and women. Students are encouraged to make use of available facilities in their leisure time. This provides a way for students to participate in sports and recreation. Upon request, clubs will be organized in sports or physical recreation activities as facilities and personnel are available.

## MAJOR AND MINOR CURRICULA

Major and minor curricula are offered for prospective teachers of health education, physical education, athletic coaching, and recreational leadership. By fulfilling the requirements, students who major in the Division of Physical Education and Intercollegiate Athletics will apply for the degree, Bachelor of Science in Education.

The Division also offers a program of graduate study leading to the Master's Degree. See *The Master's Degree*.

A major in physical education and athletics prepares men and women students for the following positions: teacher of physical education in the elementary and secondary schools, teacher of health, playground director, athletic coach, camp counselor, and recreational leader for industrial concerns and municipalities.

The Division encourages major students to assist with the instruction in men's and women's physical activity classes. This experience is advantageous to a prospective teacher.

A minor in physical education and athletics is the minimum program acceptable to the State Department of Education for the teaching of physical education and the coaching of athletic teams in the schools of Ohio.

A minor in health education will qualify the student to assume health education responsibilities in the elementary and secondary schools.

A minor in recreation will prepare the student for leadership in school, industrial and community recreation, summer playground programs, and outing or camping activities.

The University requirements pertaining to English composition, physical education, and speech, which are not indicated in the curricula below, are outlined in the University College section of the catalog.

The following courses constitute a teaching major in physical education and athletics:

MEN	Hours
<b>Freshman Program</b>	
First Semester	
Zool. 3—Principles of Zoology .....	4
P.E. 61—Introduction to Physical Education .....	1
Second Semester	
Zool. 4—Principles of Zoology .....	4
(elect for science deficiency)	
P.E.—(elected service course to strengthen skill weakness) .....	1
<b>Sophomore Program</b>	
First Semester	
P.E. 102—Personal and Community Health .....	3
P.E. 127—First Aid .....	2
P.E. 165—Program Skills .....	2
Zool. 133—Anatomy and Kinesiology .....	4
Second Semester	
P.E. 150—Recreation (either sem.) .....	3
P.E. 166—Program Skills .....	2
P.E. 168—Football Skills .....	1
Zool. 134—Physiology .....	3
P.E. 181—Administration of Intramural Activities .....	2
<b>Junior Program</b>	
First Semester	
P.E. 221—Program Skills .....	2
P.E. 267—Athletic Coaching .....	4
P.E. 233—Theory of Adapted Activities .....	2
P.E. 395—School Health Problems or Psych. 131 (3), Psych. 174 (2), .....	2-3
Second Semester	
P.E. 221—Program Skills .....	2
P.E. 268—Athletic Coaching .....	4
P.E. 269—Teaching of Health (either semester) .....	3
P.E. 35—Program Techniques (either semester) .....	1
<b>Senior Program</b>	
First Semester	
P.E. 304—History and Principles .....	3
P.E. 309—Tests and Measurements .....	3
Second Semester	
P.E. 306—Organization and Administration .....	3
WOMEN	
<b>Freshman Program</b>	
First Semester	
P.E. 7—Modern Dance .....	1
P.E. 65—Program Skills .....	2
Zool. 3—Principles of Zoology .....	4
Second Semester	
P.E. 4—Intermediate Swimming .....	1
P.E. 8—Intermediate Modern Dance .....	1
P.E. 66—Program Skills .....	2
<b>Sophomore Program</b>	
First Semester	
P.E. 102—Personal and Community Health .....	3
P.E. 121—Program Skills .....	2
Zool. 133—Anatomy & Kinesiology .....	4

	Hours
<b>Second Semester</b>	
P.E. 122—Program Skills	2
P.E. 127—First Aid	2
Zool. 134—Physiology & Kinesiology	3
P.E. 13—Mass Games	1

**Junior Program**

	Hours
<b>First Semester</b>	
P.E. 150—Recreation	3
P.E. 272—Teaching Methods	2
P.E. 273—Teaching of Rhythrical Activities	1
P.E. 304—History and Principles	3
<b>Second Semester</b>	
P.E. 269—Teaching of Health	3
P.E. 273—Teaching Methods	2
P.E. 275—Teaching of Rhythrical Activities	1

**Senior Program**

	Hours
<b>First Semester</b>	
Student Teaching	15
<b>Second Semester</b>	
P.E. 233—Theory of Adapted Activity	2
P.E. 306—Organization and Administration	3
P.E. 309—Tests and Measurements	3
P.E. 395—School Health Programs (or)	3
Psych. 131 or 174	

The following courses are suggested to meet the minimum of 24 semester hours required by the State Department of Education for a teaching minor in health and physical education.

	Hours
1. Biological Science	6
Biology, Zoology, or Human Anatomy and Physiology	
2. Principles and Organization	6
P.E. 304—History and Principles of Physical Education	(3)
P.E. 306—Organization and Administration of Physical Education	(3)
3. Theory and Practice	4

**MEN**

P.E. 165, 166—Program Skills	(2-2)
P.E. 221, 222—Program Skills	(2-2)

**WOMEN**

P.E. 65, 66 Program Skills	(2-2)
P.E. 7, 8—Modern Dance	(1-1)
P.E. 13—Mass Games	( 1 )
P.E. 121—Program Skills	( 1 )
4. Theory and Coaching	4
P.E. 139—Athletic Officiating	( 2 )
P.E. 168—Football Skills	( 1 )
P.E. 181—Administration of Intramural Activities	( 2 )
P.E. 267—Athletic Coaching	(2-4)
P.E. 268—Athletic Coaching	(2-4)

**WOMEN**

P.E. 272—Teaching Methods	( 2 )
P.E. 273—Teaching Methods	( 2 )
P.E. 274, 275 Teaching Methods	(1-1)
5. Health Education	7-8

**MEN AND WOMEN**

P.E. 102—Personal and Community Health	(3)
P.E. 269—Teaching of Health	(3)
Flect from Following (2-3):	
P.E. 127—First Aid	(2)
P.E. 128—Athletic Training	(2)
Ind. A. 5—Driver Education	(1)

The following courses constitute a state certified minor in health education:

	Hours
Speech 3—Public Speaking	2
P.E. 102—Personal and Community Health	3
Ed. 103—Studies of Children	3
P.E. 127—First Aid	2
Zool. 133, 134—Anatomy, Kinesiology and Physiology	7
P.E. 269—Teaching of Health	3
Psych. 131—Adjustment	3
P.E. 395—School Health Problems	3

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The following courses constitute a minor in recreation leadership:

	Hours
<b>MEN AND WOMEN</b>	
Soc. 101—Principles of Sociology	3
Speech 3—Public Speaking	2
Ind. A. 9—Craft	2
P.E. 15—Folk and National Dancing	1
P.E. (65-66)—(121-122) or (165-166)—(221-222) Program Skills	4
P.E. 127—First Aid	2
P.E. 50—Recreation (Social and party games, low cost crafts, square dance, theories of play, institutional recreation)	3
P.E. 349—Community Recreation (organization and administration, finance, facilities, history of, play ground supervision)	3

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## Elective courses:

P.E. 7—Beginning Modern Dance	1
P.E. 8—Intermediate Modern Dance	1
P.E. (65, 66)—(121-122) or (165, 166)—(221, 222)—Program Skills	4
Dram. A. 105—Play Production	3
P.E. 118—Life Saving and Water Safety	1
P.E. 153—Nature and Function of Play	2
P.E. 274, 275—Teaching of Rhythmic Activities	2

Elect from the above to total a minimum of 24 hours

**THE MASTER'S DEGREE**

The graduate student in physical education has optional plans of study. Plan A includes 27 semester hours of course work plus a four semester hour thesis. Plan B is 32 semester hours of course work, including a three hour research seminar.

**PLAN A**

A graduate student may work toward either the Master of Science or Master of Education in Physical Education, depending on his background of preparation and program of graduate study.

Students who elect graduate study in physical education and the related subjects of health education and recreation may

combine these interests into a major of 15 to 18 course hours and a thesis. One or two other areas will be associated with this major to complete 27 course hours plus a four hour thesis.

Associated areas or minors may be selected from related graduate course offerings in the University with the understanding that a minimum of six or more hours of prerequisite study are usually required before graduate study is permitted. The following minors are commonly selected: educational administration, counseling and guidance, history, human relations, social science, biological science, psychology, or industrial arts. The student, however, is in no way limited to these areas. The student electing to follow Plan A leading to the M.S. or M.Ed. degree will comply with the requirements outlined in the Graduate College Bulletin.

The student must pass a written comprehensive examination based on the courses taken in his major field of study. This examination is taken as directed by the major department.

#### PLAN B

Plan B permits the graduate student to work towards the Master of Education degree. This plan is available under the same requirements as Plan A, except for the following provisions:

1. The student must be approved for the program by the committee on graduate study in physical education. This approval is given only if, after a review of the student's educational aims and interests, the program seems to fit his needs.

2. The student will complete a minimum of 32 semester hours of credit for the degree. Within this program 18 to 20 course hours are taken in his major field. One or two other areas will be associated with this major to complete the required hours.

3. A seminar research course is required. The student will develop a problem in health education, physical education, recreation, athletics, or a related area. The written report of the problem must conform with the format as recommended by the Graduate College for research writing.

4. The student must pass a written comprehensive examination based on the courses taken in his major field of study. This examination is taken as directed by the major department.

## THE RESERVE OFFICERS TRAINING CORPS

Ohio University maintains two ROTC departments: THE DEPARTMENT OF MILITARY SCIENCE and THE DEPARTMENT OF AEROSPACE STUDIES.

ROTC is divided into two phases: The Basic Course and the Advanced Course. Under legislation passed in October, 1964, the university offers a four-year program and a two-year program for both departments.

**BASIC COURSE REQUIREMENTS.** In general, any physically qualified male student, who is a U. S. citizen and is more than 14 years of age is eligible for enrollment in the basic course.

**ADVANCED COURSE REQUIREMENTS.** To be eligible for the advanced course a student must meet academic, physical, aptitude and moral selection criteria; complete either the basic course on campus or the six-week summer camp, following the sophomore year; and enlist in the Reserve of the respective service. The services may call to active duty in their enlisted rank any student who willfully evades the terms of the contract. The policy of the Departments of the Army and Air Force is to use this authority only when it is clearly established that a student willfully and purposely evades his responsibility. Academic failure, financial difficulty or inaptitude will not constitute willful evasion.

**SCHOLARSHIPS.** The 1964 legislation authorized a limited number of scholarships for those students undergoing a four-year program. Such scholarships pay costs of tuition, fees, books and laboratory expenses.

**SUBSISTENCE ALLOWANCE.** Non-scholarship students enrolled in the advanced course receive subsistence allowance of \$40 per month. Students under a scholarship program could receive subsistence allowance at the rate of \$50 per month in the basic course and the advanced course.

**UNIFORMS AND EQUIPMENT.** Textbooks, training equipment, and complete uniforms are loaned to all ROTC students without cost. A student entering the advanced course receives, without cost, a

complete officer-type uniform. The newly commissioned Second Lieutenant receives a \$300 clothing allowance upon entry on active duty.

**COMMISSIONS.** A student who successfully completes the ROTC advanced course and the requirements for a baccalaureate degree, will be offered a commission as a Second Lieutenant in the United States Army Reserve or the United States Air Force Reserve.

Students who have successfully completed the first year of the ROTC advanced course and have shown evidence of outstanding leadership, scholarship, and achievements in extra-curricular activities are eligible for appointment as "Distinguished Military Students" (Army) and "Distinguished Cadets" (Air Force). Distinguished Military Students/Cadets may be considered for commissions in the Regular Army or Regular Air Force.

**SPECIAL SCHOOLING.** Both Departments encourage graduate study and permit a delay in call to active duty for up to four years for students enrolled in graduate level study. Selected officers, after entrance on active duty, are sent to civilian universities or service technical institutes, for graduate work leading to a Masters degree or to the Doctor of Philosophy degree in a variety of specialized fields.

## DEPARTMENT OF MILITARY SCIENCE

The Military Science program prepares the student to fulfill his role as an officer in the United States Army. The courses are broad in scope, preparing the student for a commission in one of the several branches which make up the Army. During recent years, Ohio University Army ROTC graduates have been commissioned in the Adjutant General Corps, Army Intelligence, Armor, Artillery, Chemical Corps, Finance Corps, Infantry, Medical Service Corps, Ordnance Corps, Quartermaster Corps and the Signal Corps. Assignment to a branch will depend on several factors including needs of the service, the desires of the individual and his academic background. Every effort is made to commission graduates in a branch for which they are suited by virtue of their college training. During their senior year, physically qualified stu-

dents may enroll in the AROTC Flight Training Program. Conducted by the University Aviation Department at no expense to the student, the program provides the graduate with the opportunity to earn his private pilot's license and his wings as an Army Aviator.

## DEPARTMENT OF AEROSPACE STUDIES

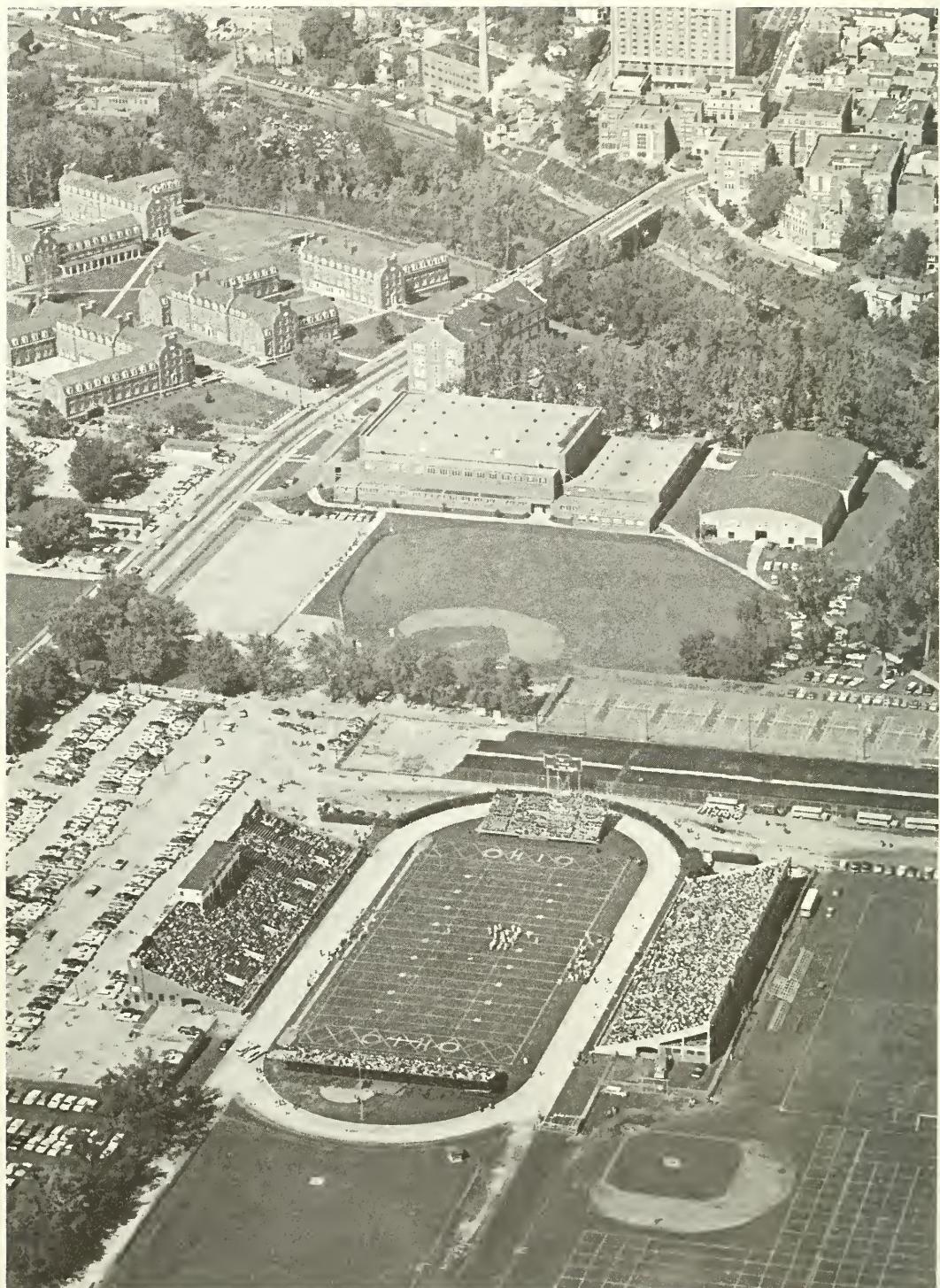
The advanced course is designed to develop the attitudes and skills required of professional Air Force officers. Upon being commissioned the new officer is assigned to a job in the Air Force which best combines his academic major, his desire, and the needs of the Air Force. Interested and qualified cadets have the option of becoming flying officers, and such identification is made tentatively at the beginning of the advanced course. These cadets will receive 36 hours of flight training in their senior year which may qualify them for a private pilot's license and they will enter USAF flying training upon entry on active duty. The on-campus training is provided at no cost to the cadet as part of the AFROTC Program. Qualified cadets may also enter Navigation Training upon going on active duty.

## THE SUMMER SESSION

The Summer Session at Ohio University consists of two five and one-half week terms. It represents a cross section of the total program of the University with every department represented in the summer course offerings. Summer courses are taught by regular Ohio University faculty members and additional distinguished visiting faculty.

Enrollment in the Session in conjunction with the two semesters provides an opportunity for year-round study. A student who enrolls at Ohio University immediately after high school graduation and who attends all summer sessions, may reasonably expect to graduate in three years.

A special bulletin covering the offerings of the Summer Session is available and may be secured by sending a request to the Director of the Summer Session, Ohio University, Athens, Ohio 45701.



Saturday afternoon football in Peden Stadium, with a seating capacity of 18,000, highlights the fall athletic program. In the background are Trautwein Field, Bird Ice Arena, the University tennis courts, and the Brandon T. Grover Physical Education Center. At the upper left of the photograph is the West Green residence hall complex.

# COURSES OF INSTRUCTION

Course offerings of the University grouped and  
listed alphabetically by departments

# COURSES OF INSTRUCTION

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**CATALOG NUMBER**—The catalog number indicates the student classification for which the course is primarily intended.

- 1- 99 for freshmen
- 100-199 for undergraduates above the freshman level
- 200-299 for advanced undergraduates (juniors and seniors)
- 300-399 for advanced undergraduates and graduate students
- 400-499 exclusively for graduate students
- 500-599 for post-masters and doctoral students exclusively

In general, an odd number indicates the first semester of a two-semester course; an even number, the second semester. An exception occurs in the numbers used for the teaching techniques courses.

Two numbers at the beginning of a course indicate a two-semester or year course. A *hyphen* between the numbers indicates that the course is a continuous course; that is, the first semester course is a prerequisite for the second semester. A *comma* between the numbers indicates that although the course is a two-semester course, the first semester course is not a prerequisite for the second semester.

**CREDIT**—Credit for a course is indicated by the number or numbers in parentheses following the course title, and, in case of a year

course, is shown for each semester. In a semester course it may be expressed thus: (3), (1 to 3), or (2 or 3); in a year course, (3-3), (3, 3) (1 to 3-1 to 3), or (2 or 3-2 or 3).

A course with one semester hour credit (1) is the equivalent of one recitation or two or more laboratory periods a week throughout a semester.

In a course carrying variable credit the credit may be expressed thus, (1 to 4), indicating that one hour is the minimum and four hours the maximum amount of credit allowed for the course in one semester. A student may enroll for a course with variable credit any number of times and for any number of semester hours, within the semester limit, provided the total registration for the course does not exceed the maximum credit indicated in the course description.

Course prerequisites are indicated at the end of course descriptions following the abbreviation, "Prereq." A student who completes an advanced course may not subsequently enroll in a prerequisite course for credit.

**INSTRUCTORS**—The listing is as of October, 1965.

**FEES**—When a course requires a private instructional fee, the amount is stated in the description of the course.

**CLASS SCHEDULE**—A Schedule of Classes is available each semester from the Registrar.

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## ACCOUNTING

*Professors Beckert, Fenzel*

*Associate Professors Neubig (chairman), Reininger  
Assistant Professor Cox*

*Instructor Brownlee*

*Part-time Instructors Abel, Kelton*

*Lecturers Smith, Stephenson*

### 75-76. ELEMENTARY ACCOUNTING (3-3)

*Staff*

The fundamental principles of accounting theory and practice as they affect corporations, partnerships, and proprietorships. Prereq., will not substitute for Acct. 101-102.

### 101-102. MANAGERIAL ACCOUNTING (3-3)

*Staff*

The uses of accounting information for making managerial decisions. Prereq., Ec. 12 or 102 or with Ec. 12 or 102.

### 111. INDUSTRIAL ACCOUNTING (3)

*Beckert*

A survey course covering basic accounting principles with emphasis on procedures used in accounting for material, labor, and overhead in job-lot and process cost systems. Prereq., not open to students working toward the Bachelor of Business Administration degree. No credit allowed for this course for students who have completed Accounting 75-76.

**125-126. INTERMEDIATE ACCOUNTING (3-3)***Beckert, Neubig, Stephenson*

Preparation and analysis of accounting statements; special problems in accounting for current, fixed, and intangible assets, for liabilities, and for corporate net worth; funds and reserves; and investments. Prereq., 76.

**175. COST ACCOUNTING (3)***Reininga*

Manufacturing cost determination under the job-order and process systems. Prereq., 76.

**217. FEDERAL TAXES (3)***Stephenson*

Beginning study of Federal income taxes for individuals, partnerships, and corporations. Prereq., 76 or 111.

**261. TEACHING OF BOOKKEEPING AND BASIC BUSINESS (2)***Beckert*

Prereq., 125.

**275. GOVERNMENTAL AND INSTITUTIONAL ACCOUNTING (3)***Staff*

Prereq., 126.

**305-306. ADVANCED ACCOUNTING (3-3)***Neubig*

Problems peculiar to partnerships, receiverships, fiduciaries, installment sales, consignments, insurance, estates and trusts; compound interest applications; governmental accounting; branches, consolidations, and mergers; and foreign exchange. Prereq., 126.

**324. STANDARD COSTS AND BUDGETS (3)***Reininga*

The establishment of standard costs, preparation of budgets, and analysis of cost variances. Prereq., 175.

**343. FEDERAL INCOME TAX ACCOUNTING (3)***Stephenson*

Study of advanced tax problems of individuals, partnerships, and corporations including tax planning and administration. Prereq., 217.

**355. INDUSTRIAL AUDITING AND INTERNAL CONTROL (3)***Beckert*

Study of types of internal audits, audit reports, fraud, and an appraisal of the standards of internal auditing as a profession. Basic and internal controls are studied in their relation to the auditor's program. Prereq., 126 and 175.

**356. AUDITING PRINCIPLES AND PRACTICE (3)***Beckert, Neubig*

Purposes and scope of audits and examinations; audit principles and procedure; and audit reports and certificates. Prereq., 126 and 175.

**378. C.P.A. PROBLEMS (3)***Cox, Neubig*

The accounting profession; C.P.A. coaching; analysis, interpretation, and solution of state board problems. Prereq., 175, 305 or permission.

**381. RESEARCH IN ACCOUNTING (1 to 8)***Staff*

Prereq., 305, 324, permission.

**391. SEMINAR IN ACCOUNTING (2 to 4)***Staff*

Maximum credit in course, 10 hrs. Prereq., 15 hrs., permission.

**401. ACCOUNTING THEORY (3)***Beckert, Reininga*

The development of accounting theory historically and current developments and literature in the theory area. Prereq., permission.

**402. ACCOUNTING DATA ACCUMULATION AND ANALYSIS (3)***Neubig*

Accounting systems with particular relations to punched card and computerized data processing. Techniques in the quantitative analysis of accounting data. Prereq., permission.

**403. HISTORY, ETHICS, AND PHILOSOPHY OF THE ACCOUNTING PROFESSION (3)***Neubig*

Court cases involving the profession, Securities and Exchange Commission, regulation of practice, evolution and ethics of the profession, and the philosophy of auditing. Prereq., permission.

**405. CONTROLLERSHIP (3)***Staff*

Case method study of problems and policy-forming decisions of the controllership function which comprises the fields of general accounting, internal control, budgeting, taxes, cost control, and financial reporting. Prereq., permission.

**425. MANAGERIAL ACCOUNTING (3)***Cox*

A survey course designed for the Master of Business Administration degree student with particular emphasis on the uses of accounting data in making business decisions. Prereq., 6 hrs.

**481. RESEARCH IN ACCOUNTING (1 to 3)***Staff*

Independent study in either the area of accounting theory, public accounting, controllership, governmental accounting, or Federal taxes. Prereq., permission.

**491. SEMINAR IN ACCOUNTING (2 to 4)***Staff*

Maximum credit in course, 8 hrs. Prereq., permission.

**495. THESIS (As recommended by dept.)** *Staff*  
Prereq., permission.

**499. INTERNSHIP (2 to 4)** *Staff*

Six months of acceptable accounting work experience including periodic written reports, a final report, and an oral examination—all analyzing the work experience and integrating it with the academic program pursued. Prereq., permission.

## ADVERTISING

*Professors Krauskopf (chairman), Turnbull  
Associate Professor Raymond  
Assistant Professors Day, Hewitt, Muse, Richmond*

**155. ADVERTISING PRINCIPLES (3)** *Staff*  
A survey of advertising which considers its place in the field of marketing and its fundamental procedures. Prereq., Mkt. 255 or permission.

**286. RETAIL ADVERTISING (3)** *Hewitt, Richmond*  
The principles of advertising as related to the needs of retailers. Prereq., 155.

**332. COPY WRITING (2)** *Turnbull*  
The elementary essentials of copy developed by the study of current theory and analysis of tested examples. Considerable constructive work is required. Prereq., 155 and Ec. 12 or 102.

**376. ADVERTISING PROBLEMS (3)** *Krauskopf, Richmond*  
A logical sequel to 155. It emphasizes administrative problems and the coordination of advertising with other marketing activities. Prereq., 155.

**381. RESEARCH IN ADVERTISING (1 to 8)** *Staff*  
Prereq., 18 hrs. business administration including 5 hrs. advertising, and permission.

**391. SEMINAR IN ADVERTISING (2 to 4)** *Staff*  
Maximum credit in course, 10 hrs. Prereq., 18 hrs. business administration including 5 hrs. advertising and permission.

**495. THESIS (As recommended by dept.)** *Staff*  
Prereq., permission.

Additional courses:

Art 247-248—Advertising Design  
Jour. 146—Typography, Mechanics, and  
    Makeup  
Jour. 247—Newspaper Advertising and Layout

Jour. 277—Newspaper Advertising Practice  
Jour. 309—Radio-Television Advertising and Management  
Jour. 327—Public Relations Techniques  
Jour. 328—Public Relations  
Jour. 348—Advertising Production  
Psych. 162—Psychology of Advertising and Selling

## AGRICULTURE

*Professor DeVeau (chairman)  
Assistant Professor Straight*

**1-2. INTRODUCTION TO AGRICULTURE (3-3)** *DeVeau*

A survey of the different agricultural enterprises and their interrelations in the United States. Agr. 1 is primarily concerned with livestock and Agr. 2 with crops and soils. (Yearly.)

**30. FOREST MANAGEMENT (3)** *Straight*

The management of farm woodlands, state and national forests. Identification of common trees and woods. 2 lec., 2 lab. (Each sem.)

**120. DEVELOPMENT OF AGRICULTURE IN THE UNITED STATES (3)** *DeVeau*

A survey of agriculture in the United States from early colonial times to the present. Emphasis on regional development; evolution of methods and techniques; trends in marketing and consumption.

**125. WORLD AGRICULTURE (3)** *DeVeau*

Historical development and pattern of agricultural development to the present. Emphasis on the adjustment of agriculture to natural and economic phenomena. Present pattern of world production, trade, and consumption.

**235. AGRIBUSINESS MANAGEMENT (3)** *DeVeau*

Introduction to the production problems of agriculture and agribusiness enterprises. Theoretical and practical considerations in the organization and operation of agricultural businesses. Prereq., Ec. 12 or 102.

**290. AGRICULTURAL POLICY (3)** *DeVeau*

The problems of agriculture as an industry. An analysis of government programs and policies; and, objectives and forces in policy formation. Prereq., Ec. 12 or 102.

**320. AGRICULTURAL ORGANIZATIONS (3)** *DeVeau*

A study of the major agencies organized to promote agriculture and rural living. 2 lec., 2 lab. Prereq., 15 hrs. in business administration.

**381. RESEARCH IN AGRIBUSINESS (2 to 4)**  
*Staff*

Intensive individual study in some phase of agribusiness. Maximum credit in course, 6 hrs. Prereq., 18 hrs. in business administration and permission.

## ANTHROPOLOGY

(See Sociology and Anthropology)

## ARCHAEOLOGY AND ANTIQUITIES

*Instructor Hultgren*

**101. INTRODUCTION TO ARCHAEOLOGY—EGYPT (3)**

*Hultgren*

Aims, methods, and techniques; general types of archaeological work and excavation with emphasis on Egyptian sites. May be taken by students who have had 103 and/or 252 as well as by beginners. (1st sem., 1966-67.)

**103. INTRODUCTION TO ARCHAEOLOGY—ROME (3)**

*Hultgren*

Similar to 101, but with emphasis on Roman sites. may be taken by students who have had 101 and/or 252 as well as by beginners. (1st sem., 1967-68.)

**252. ARCHAEOLOGY OF GREECE (3)**

*Hultgren*

The archaeology of Greece and the Aegean islands with emphasis on Minoan and Mycenaean civilizations. Prereq., 101 or 103; or 11 hrs. foreign language; or 8 hrs. history (or art history) and antiquities. (2nd sem., yearly.)

## ARCHITECTURE

*Professor Clark, Director*

*Associate Professor Millman*

*Assistant Professors Lauer, Tomko*

*Lecturer LeBoutillier*

*Instructors Dluhosch, Reckmeyer, Smothers*

*Part-Time Instructor Sheng*

**11. INTRODUCTION TO ARCHITECTURE (3)**  
*Reckmeyer*

Basic introduction to the nature, practice, and theory of architecture. Required of architecture majors. Open to non-majors.

**12. BASIC DESIGN (4)**

*LeBoutillier, Millman, Reckmeyer, Smothers*

Organization of 2-dimensional visual material and graphic description using instrumental and freehand drawing.

**111. BASIC DESIGN (4)**

*LeBoutillier, Smothers*

Continuation of Arch. 12 with emphasis on 3-dimensional studies, structural and spatial, with description by freehand and instrumental drawing. Prereq., 12.

**112. SOPHOMORE DESIGN (5)**

*LeBoutillier, Millman*

Transition from basic to architectural design by application of basic design principles to programs for human use. Analysis of primary determinants and secondary influences formulated for design solutions. Models and display drawings. Prereq., 111.

**181. THEORY OF CONSTRUCTION (2)**

*Lauer*

Application of principles of statics and strength of materials to conventional components of building construction. 2 lec. Prereq., Math. 16.

**255-256. JUNIOR DESIGN (5-5)**

*Dluhosch, Smothers*

Analysis, programming, and presentation of design solutions to a sequence of architectural problems of limited detail. 15 studio hours. Prereq., 112.

**279. MATERIALS OF CONSTRUCTION (3)**

*Lauer*

Study of the properties of conventional and newer types of material utilized in building construction and their interaction in assembly. 3 lec. Prereq., permission.

**281-282. STRUCTURAL DESIGN (3-3)**

*Lauer*

Architectural construction in wood, steel, concrete, and masonry. 2 lec. Prereq., 181 or permission.

**283. MECHANICAL AND ELECTRICAL EQUIPMENT AND BUILDINGS (3)**

*Lauer*

Mechanical equipment used in buildings, including plumbing and heating systems. 3 lec. Prereq., Phys. 5, 6 or permission.

**284. CONSTRUCTION DRAWING (2 or 3)**

*Clark, Dluhosch*

Drafting room application of the coordinated uses of materials and construction principles. 6 lab. Prereq., 279, 282.

**301. PROBLEMS IN ARCHITECTURE (1 to 3)**

*Clark*

Supervised individual projects. Maximum credit in course, 12 hrs. Prereq., senior and junior majors.

**311-312. CITY PLANNING (2-2)**

*Clark*

Lectures, seminar, special lectures on geography, sociology, economics, and political science related to city planning, contemporary examples and practice, the architect's role in planning. Required of

fifth year students in architecture. Open to advanced or graduate students from social sciences by permission. 2 lec. Prereq., 375, 386.

### 370. CIVIC DEVELOPMENT (3)

*Dluhosch*

Investigation of the components of civic design with emphasis on historical and present examples as aids to determining the principles underlying civic design. Scale models and readings from contemporary theorists.

### 375. NINETEENTH CENTURY ARCHITECTURE (3)

*Tomko*

Development of building types, styles and construction techniques in America and Europe up to 1880.

### 376. TWENTIETH CENTURY ARCHITECTURE (3)

*Tomko*

Continuation of Arch. 375. Develops the evolution of modern architecture from 1880 to the present. Prereq., 375 or equivalent.

### 378. PHILOSOPHY OF ARCHITECTURE (2)

*Reckmeyer, Staff*

Theories of architecture advanced or exemplified by philosophers, estheticians, and architects. Lectures, assigned presentations, and seminar discussions. Required of majors; open to graduate students in Fine Arts by permission. Prereq., 377.

### 381. ADVANCED STRUCTURES (3)

*Sheng*

Study of recent developments in structural theory and examples of new structural resources for general architectural design. Required of majors. 3 lec. Prereq., 282.

### 385-386. SENIOR DESIGN (5-5)

*Reckmeyer*

A continuation of Arch. 256 with increased emphasis on structure, materials and equipment. 15 studio hours. Prereq., 256, 279, 282, 283.

### 388. PROFESSIONAL PRACTICE (3)

*Clark, Smothers*

Ethical and legal principles and responsibilities in professional practice. Architect's role as agent; agreements, contracts, codes, supervision, office organization. Required of majors.

### 395. ADVANCED DESIGN (5)

*LeBoutillier, Millman*

Continuation of 386. Design projects of large scale or complex problems including groups of buildings, related to urban and regional planning. 15 studio hrs.

### 396. BACHELOR OF ARCHITECTURE THESIS (7)

*Millman, Staff*

Open only to majors. Culmination of architectural design sequence. Individual or team projects of

building type selected with the approval of the faculty. Research, analysis, schematic and display drawings, working drawings and specifications. 20 studio hrs. Prereq., 395.

## ART

### Distinguished Professor Mutchler

Professors Leach (Director), C. Smith, I. Work

Associate Professors J. Baldwin, Hostettler,  
Kortlander, Leonard, Lin, McCarthy,  
D. Roberts

Assistant Professors Eldridge, Hysell, Leedy,  
Loomis, Moran, Pettigrew, Von Brock

Instructors Jonas, Lampela, O'Connor, T. Rhodes,  
Vanderplas

### 1-2. DRAWING AND DESIGN (3-3)

*Staff*

Emphasis on the inseparability of drawing and design. Aesthetic principles are dealt with as they arise out of specific problems rather than as separate entities. Required of freshmen art students.

### 3. ELEMENTARY DESIGN FOR TEACHERS (2)

*Staff*

Principles of design, color, lettering, and related problems. Planned for students who expect to major in elementary education. 1 lec., 3 lab.

### 21. ELEMENTARY SCULPTURE (2)

*Staff*

Theory and aesthetic application of principles of art with emphasis on volumetric organization. Required of freshmen art students.

### 28. FIGURE DRAWING (2)

*Staff*

Study of the human figure from the nude and draped model. Maximum credit in course, 6 hrs.

### 101. DRAWING AND DESIGN (3)

*Staff*

Continuation of Art 2. Required of sophomore art students. Prereq., 2 or equivalent.

### 105. PAINTING (2 or 3)

*Staff*

Introduction to basic problems and techniques. Prereq., 101 or permission.

### 109a. LITHOGRAPHY AND RELIEF PRINTS (2 or 3)

*D. Roberts*

### 109b. INTACLIO PRINTS (2 or 3)

*Jonas*

Prereq., 101 or permission.

### 111. DRAWING WORKSHOP (2)

*Staff*

Experimentation and familiarization with traditional and contemporary drawing techniques and

media. Maximum credit in course, 4 hrs. Prereq., 2 or equivalent.

**113-114. LETTERING (2 or 3)**

*Smith*

Basic relationships to typography. Application in the production of posters, book jackets, trademarks. Experimentation with various media. 6 lab. Prereq., 2 or equivalent.

**115. CERAMICS (2 or 3)**

*Lin*

Introduction to production processes, the chemistry of glazes and simple geology of clays. 1 lec., 5 lab. Prereq., 101 or permission.

**120. TEXTILE DESIGN (3)**

*Staff*

Weaving, block printing, silk screen. Maximum credit in course, 6 hrs. 1 lec., 3 lab. Prereq., 2 or equivalent.

**123. JEWELRY AND ENAMELING (2)**

*Staff*

Original designs executed in silver and copper. Maximum credit in course, 6 hrs. 1 lec., 3 lab. Prereq., 2 or equivalent.

**128. ADVANCED FIGURE DRAWING (3)**

*Staff*

Emphasis on anatomical construction. For students who have a maximum of B in their second semester of 28. Maximum credit in course, 9 hrs. Prereq., permission.

**130. WEAVING (3)**

*Staff*

Prereq., 2 or equivalent.

**131. SCULPTURE (2 or 3)**

*Baldwin*

Modeling from the figure in various media. Maximum credit in course, 6 hrs. Prereq., 21 or permission.

**160. PRACTICAL DESIGN WORKSHOP FOR ELEMENTARY TEACHERS (1 to 3)**

*Leonard, McCarthy*

Problems in modeling, ceramics, murals, puppets, painting, and other activities related to the elementary school and philosophy of teaching. Prereq., 3.

**171-172. BASIC INTERIOR DESIGN (2-2)**

*Moran*

A survey of architectural details and styles of furniture, house plans, decorative treatment, and materials. Prereq., 10 hrs., or permission.

**191. DESIGN AND COMPOSITION (3)**

*Work*

Special emphasis on color and design. Planned for students who expect to major in home economics. 1 lec., 5 lab.

**205. PAINTING (2)**

*Staff*

Basic techniques and practices in oil painting. Maximum credit in course, 6 hrs. Prereq., 105 or permission.

**209a. LITHOGRAPHY AND RELIEF PRINTS (3)**

*D. Roberts*

**209b. INTAGLIO PRINTS (3)**

*Jonas*

Maximum credit in course, 6 hrs. Prereq., 109a or b or permission.

**215. CERAMICS (3)**

*Lin*

Wheel throwing process and decorative techniques. Slide lectures and introduction to glaze testing methods. Maximum credit in course, 6 hrs. Prereq., 115 or permission.

**218. WATER COLOR (3)**

*Staff*

Maximum credit in course, 6 hrs. Prereq., 8 hrs.

**231. SCULPTURE (3)**

*Hostetler*

Modeling from life in clay and plaster. Work with terra-cotta stone, wood, and metal. Maximum credit in course, 6 hrs. 6 lab. Prereq., 131 or permission.

**240a. DESIGN APPLIED TO MATERIALS (2)**

*Pettigrew*

For art majors planning to teach art in the elementary and secondary fields. Maximum credit in course, 4 hrs. Prereq., 9 hrs.

**240b. DESIGN APPLIED TO MATERIALS (2)**

*Staff*

For design majors; emphasis on materials and processes. Maximum credit in course, 4 hrs. Prereq., 101 or permission.

**247-248. ADVERTISING DESIGN (3-3)**

*Smith*

Magazine, newspaper and direct mail layout. Creative design and advertising production. 6 lab. Prereq., 113.

**260. TEACHING OF ART (3)**

*McCarthy*

Prereq., 20 hrs. as specified for certification.

**271. INTERMEDIATE INTERIOR DESIGN (3)**

*Moran*

History and theory of Interior Design with special attention to furniture styles. Prereq., 172 or permission.

**272. INTERMEDIATE INTERIOR DESIGN (3)** *Moran*  
 Furniture design and construction: Scaled construction, drawings, and models of original design. Prereq., 271 or permission.

**301. INDIVIDUAL PROBLEMS (1 to 3)** *Staff*  
 Senior and graduate registration for individual instruction. Maximum credit in course, 12 hrs. Prereq., permission.

**305. ADVANCED PAINTING (2 or 3)** *Staff*  
 Maximum credit in course, 6 hrs. Prereq., 205 or equivalent.

**309a. LITHOGRAPHY AND RELIEF PRINTS (3)** *D. Roberts*

**309b. INTAGLIO PRINTS (3)** *Jonas*  
 Maximum credit in course, 6 hrs. Prereq., 209 or permission.

**315. ADVANCED CERAMICS (3)** *Lin*  
 Advanced production methods. Construction of potter's wheel, ball mill, and electric kilns. Advanced glaze and clay testing techniques. Maximum credit in course, 6 hrs. Prereq., 215 or equivalent.

**317-318. ADVANCED ADVERTISING DESIGN (3-3)** *Smith*

Magazine, newspaper, direct mail, and display layout. Prereq., 248.

**325. ADVANCED JEWELRY (2)** *Staff*  
 Maximum credit in course, 6 hrs. 1 lec., 3 lab. Prereq., 10 hrs. including 123.

**328. FIGURE PAINTING (3)** *Mutchler*  
 Painting from the nude or costumed figure. A study of the plastic qualities in oil painting in relation to the personal objectives of the individual student. Maximum credit in course, 12 hrs. Prereq., 9 hrs., 128, permission.

**331. SCULPTURE (3)** *Hostetler*  
 Advanced work in modeling, carving, and direct metal. Theory and practice of casting processes. Maximum credit in course, 6 hrs. Prereq., 231 or equivalent.

**351-352. INDUSTRIAL DESIGN (2 or 3-2 or 3)** *Staff*  
 Design and presentation of industrial products with emphasis on function, appearance, and material. 4 lab. Maximum credit in course, 12 hrs. Prereq., 9 hrs. including 231.

**365-366. ILLUSTRATION (3-3)** *Mutchler*  
 Emphasis on student practice. Story and commercial illustrations using present-day techniques. Maximum credit in course, 9 hrs. Prereq., permission.

**371. ADVANCED INTERIOR DESIGN (3)** *Moran*  
 Office procedures employed in the design and execution of residential, commercial, and institutional interior. Prereq., 272 or permission.

**372. ADVANCED INTERIOR DESIGN (3)** *Moran*  
 Complete detailing of Interior Design problems: furnishing, lighting, carpeting, and color. Prereq., 371, or permission.

**381. RESEARCH (1 to 5)** *Staff*  
 Individual problems of theory and practice involving research techniques. Maximum credit in course, 5 hrs. Prereq., permission.

**405. ADVANCED PAINTING (1 to 5)** *Staff*  
 Advanced work in traditional and contemporary media. Solutions to the student's problems are sought in relation to his personal objectives. Maximum credit in course, 12 hrs. Prereq., 305, permission.

**409a. LITHOGRAPHY AND RELIEF PRINTS (1 to 5)** *D. Roberts*

**409b. INTAGLIO PRINTS (1 to 5)** *Jonas*  
 Experimental work in various print media and combinations thereof. Maximum credit in course, 12 hrs. Prereq., 309 and permission.

**415. CERAMICS (1 to 5)** *Lin*  
 Advanced and experimental work in bodies, glazes, and kiln constitution for all temperature ranges. Maximum credit in course, 12 hrs. Prereq., 315 or equivalent.

**428. FIGURE PAINTING (1 to 3)** *Eldridge, Mutchler*  
 Advanced work in costumed figure or the nude. Maximum credit in course, 12 hrs. Prereq., 328 or equivalent.

**431. SCULPTURE (1 to 5)** *Hostetler*  
 Advanced work in plaster, wood, stone, direct steel, and ceramic media. Maximum credit in course, 12 hrs. Prereq., 331, permission.

**451. INDUSTRIAL DESIGN (1 to 5)***Staff*

Advanced problems of industrial products design and presentation. Maximum credit in course, 12 hrs. Prereq., 351 and permission.

**495. THESIS (As recommended by dept.)***Staff*

Prereq., permission.

**496. STUDIO THESIS (2 to 4)***Staff*

Prereq., permission.

**ART HISTORY**

(See Fine Arts)

**ASTRONOMY***Professor Goedicke***111. ELEMENTARY ASTRONOMY (3)***Goedicke*

The apparent motions of sun, moon, planets, and stars, as related to time, latitude, and longitude. The physical properties of the sun, moon, planets, comets, meteors, and meteorites. Atmosphere, temperatures, and surface conditions of other planets. Origin and evolution of the planets. Prereq., elementary physics, and mathematics through trigonometry. (1st sem., yearly.)

**112. ELEMENTARY ASTRONOMY (3)***Goedicke*

Methods of studying the sizes, temperatures, densities, and compositions of stars and nebulae. Distances and motions of astronomical bodies, and the physical structure of the universe. Modern theories of the origin and evolution of the stars and galaxies. Prereq., elementary physics, and mathematics through trigonometry. (2nd sem., yearly.)

**115. ASTRONOMY LABORATORY (1)***Goedicke*

Observational work at the telescope, with emphasis on the sun, moon, and planets. Analysis of astronomical data. Measurement of astronomical photographs and spectrograms. Prereq., 111 or with 111. (1st sem., yearly.)

**116. ASTRONOMY LABORATORY (1)***Goedicke*

Observational work at the telescope, with emphasis on stars, nebulae, and galaxies. Analysis of astronomical data. Spectroscopic analysis of stars. Prereq., 112 or with 112. (2nd sem., yearly.)

**135. ELEMENTS OF NAVIGATION (2)***Goedicke*

Basic navigational astronomy; the use of the sextant; the Nautical Almanac; the Line of Posi-

tion Method as used in air and surface navigation. Prereq., Math 15. (Given upon sufficient demand.)

**350. STUDIES IN ASTRONOMY (1 to 4)***Goedicke*

Prereq., 111, 112, and permission.

**AVIATION***Chief Instructor Fuller (director)**Instructors Conner, Griffith, Hoffman, Hoover, Simpson, Mace, Thomas***110. PRIMARY GROUND INSTRUCTION (2)***Fuller, Staff*

Ground instruction and practice in the following: aerial navigation, meteorology, civil air regulations, radio and aircraft maintenance. Meets all minimum requirements of the FAA to prepare for the private pilot written examination. 1 lec., 2 lab.

**111. PRIMARY FLIGHT INSTRUCTION (2)***Fuller, Staff*

Offers a minimum of 35 hours of actual flight training plus 1½ hours allotted at the end of the course to accomplish the FAA private pilot flight test. In addition, there will be approximately 10 hours of individual discussion. Successful completion of this course may terminate with a private pilot's license. 10 lec., 35 lab. Prereq., 110 or with 110, permission. Course fee, \$350.

**112. SECONDARY FLIGHT INSTRUCTION (2)***Fuller, Staff*

Dual flight instruction and solo practice designed to increase the proficiency of private pilots including cross country, night flying, and instruments. A total of 40 flight hours including approximately 20 hours dual and 20 hours solo. 10 lec., 40 lab. Prereq., 111 or private pilot's license, permission. Course fee, \$385.

**211. INSTRUMENT FLIGHT INSTRUCTION (2)***Fuller, Staff*

Instruction of flight by sole reference to the instruments. Instruments and their systems, basic instrument flight fundamentals, FAA regulations, instrument flight planning and flight including air traffic control procedures, communication procedures, radio orientation and navigation, and instrument approaches. Total time will be 30 hours of which 10 hours may be in a Link Trainer. Prereq., commercial pilot's certificate or equivalent experience and permission. Fee \$385.

**BACTERIOLOGY**

(See Zoology)

**BIOLOGY**

(See General Studies)

## BOTANY

*Associate Professors Bickle, Cohn, Gambill, Miller, Vermillion, Wallace, Wistendahl (chairman)*

*Assistant Professors Graffius, Larson*

The major requirement for the A.B. degree is a minimum of 24 hours in departmental courses, and for the B.S. degree 30 hours. The major program must include Bot. 3-4, 106 or 117, 123 or 173 or 314, 203, 205, 232, and 391 or 392, with at least six hours in courses numbered above 300. Biol. 1 and 2 may be substituted for Bot. 3. Chem. 3-4-99 are required of all majors. Strongly recommended for majors are one course in college physics (Physics 5 or 6), and mathematics through college algebra and trigonometry (Math. 9 and 14). For all prospective graduate students organic chemistry (Chem. 113) is essential.

### 3-4. GENERAL BOTANY (4-4)

*Staff*

The structure and functions of plants; their life cycles, classification and heredity; a survey of the plant kingdom; fundamental interrelationships of plants and animals, including man. 3 lec., 2 lab. Credit allowed for only one semester if Biol. 1-2 have been completed. (Each sem.)

### 104. READINGS IN BOTANY (1)

*Staff*

Assigned readings in botanical literature, historical or current, designed to broaden the background in the plant sciences, and to bring acquaintance with recent advances. Hours arranged. Prereq., 4 or Biol. 2. (Yearly.)

### 106. LOCAL FLORA (3)

*Gambill*

Collection, identification and classification of flowering plants with emphasis on the native flora, with both laboratory and field studies. 2 lec., 2 lab. 2 Sat. field trips. Prereq., 4 or Biol. 2. (2nd sem., yearly.)

### 108. VEGETATION OF NORTH AMERICA (2)

*Wistendahl*

An illustrated lecture course considering extensive plant formations with relationship to climate, soil, geographic formations, and the influence of man. 2 lec. Prereq., 4 or Biol. 2. (2nd sem., 1966-67.)

### 117. DENDROLOGY (3)

*Gambill*

Collection, identification, and classification of native and introduced woody plants in summer and winter conditions. 2 lec., 2 lab. 2 Sat. field trips. Prereq., 4 or Biol. 2. (1st sem., yearly.)

### 123. INTRODUCTION TO THE FUNGI (3)

*Vermillion*

A general survey of the fungi stressing both taxonomy and morphology through field and laboratory studies. 2 lec., 2 lab. Prereq., 4 or Biol. 2. (1st sem., yearly.)

### 173. FUNDAMENTAL PLANT MORPHOLOGY (3)

*Graffius*

Comparative studies of algae, lichens, and bryophytes with special emphasis on structure and life cycles. 2 lec., 2 lab. Prereq., 4 or Biol. 2. (1st sem., yearly.)

### 203. PLANT ECOLOGY (4)

*Wistendahl*

The study of natural plant communities with respect to environmental conditions. 2 lec., 4 lab. or field work. Prereq., 117 or 205. (1st sem., yearly.)

### 205. ELEMENTARY PLANT PHYSIOLOGY (4)

*Larson, Wallace*

Introduction to the basic physics and chemistry of photosynthesis, respiration, and digestion in plants; uptake, movement and functions of mineral nutrients; translocation and transpiration. 2 lec., 4 lab. Prereq., 4; 1 yr. college chemistry. (1st sem., yearly.)

### 211. PLANT ANATOMY (3)

*Bickle*

Comparative structure of vascular plants. 2 lec., 2 lab. Prereq., 173. (1st sem., 1967-68.)

### 212. PLANT MICROMECHANIQUE (3)

*Cohn*

Principles and methods of preparing plant tissues for microscopic study. 2 lec., 2 lab. Prereq., 173. (1st sem., 1967-68.)

### 221. PLANT PATHOLOGY (4)

*Vermillion*

The nature, causes, economic importance, and control of diseases of some common cultivated plant. 2 lec., 4 lab. Prereq., 123. (1st sem., 1966-67.)

### 232. CYTOLOGY (4)

*Cohn*

Gross and fine structure of cells; mitosis, meiosis; cytoplasmic components and their behavior; chemistry and morphology of chromosomes. 2 lec., 4 lab. Prereq., 4 or Zool. 4; 1 yr. college chemistry. (2nd sem., yearly.)

### 242. FRESH-WATER ALGAE (3)

*Graffius*

Classification, structure, relationships and life histories of fresh-water algae, with emphasis on the identification of common or representative genera. 2 lec., 2 lab. Prereq., 4 or Zool. 4 (2nd sem., yearly.)

### 304. FOREST ECOLOGY (4)

*Wistendahl*

The forest environment, and methods of studying the growth and development of trees and forest stands. 2 lec., 4 lab. 2 Sat. field trips. Prereq., 203. (2nd sem., 1967-68.)

## 307. ADVANCED PLANT PHYSIOLOGY (4)

*Wallace*

Advanced study of plant processes with special emphasis on techniques employed in research. 2 lec., 4 lab. Prereq., 205, and a course in organic chemistry. (2nd sem., 1966-67.)

## 308. ADVANCED GENETICS (Same as Zool. 308.) (3)

*Cohn, McQuate*

Gene action and fine structure; biochemical genetics; microbial and radiation genetics; cytoplasmic inheritance. Prereq., 232 or Zool. 107, organic chemistry. (2nd sem., 1966-67.)

## 310. RADIATION BIOLOGY (Same as Zool. 310.) (4)

*Larson*

A study of the techniques of the use, detection and interpretation of radioactive tracers in biological problems and the effects of some radiations on living tissue. 2 lec., 4 lab. Prereq., in Botany: 9 hrs. beyond 4, incl. 205; in Zoology: 8 hrs. beyond 4, incl. 305. (2nd sem., yearly.)

## 311. PALEOBOTANY (4)

*Blickle*

Plant fossils throughout geological time. 2 lec., 4 lab. 2 Sat. field trips. Prereq., 117 or 211. (1st sem., 1966-67.)

## 314. DEVELOPMENT PLANT MORPHOLOGY (3)

*Blickle*

Development of ferns and seed plants with emphasis on embryology and organogenesis. 2 lec., 2 lab. Prereq., 173 or 211. (2nd sem., 1966-67.)

## 315. SYSTEMATIC BOTANY (4)

*Gambill*

Systematics, nomenclature, and phylogeny of angiosperms through laboratory, field, and herbarium studies with emphasis on the fall flora. 2 lec., 4 lab. 2 Sat. field trips. Prereq., 106. (1st sem., 1966-67.)

## 316. TAXONOMY OF THE BRYOPHYTES (4)

*Gambill*

Identification, nomenclature, and classification of the bryophytes through laboratory and field studies. 2 lec., 4 lab. 2 Sat. field trips. Prereq., 106, 173. (2nd sem., 1967-68.)

## 318. WOOD TECHNOLOGY (3)

*Blickle*

Methods of identification of woods, their uses and products, with emphasis on comparative structure. 1 lec., 4 lab. 2 all-day field trips. Prereq., 117 or 211. (2nd sem., 1967-68.)

## 324. FOREST PATHOLOGY (3)

*Vermillion*

Diseases of forest and shade tree species, their economic importance, prevention and control. Prereq., 117, 123 or 221. 2 lec., 2 lab. (2nd sem., 1966-67.)

## 325. MYCOLOGY (3)

*Miller*

A study of specific groups of fungi, with emphasis upon physiology, including some reference to their economic importance. 2 lec., 2 lab. Prereq., 123 and 1 yr. college chemistry. (2nd sem., 1967-68.)

## 327. CYTOGENETICS (3)

*Cohn*

Genetics and cytology in terms of chromosomes and their behavior; heteroploidy; chromosomal aberrations; cancerogenesis; karyotype evolution; cytotaxonomy. Prereq., 232, Zool. 107. (1st sem., 1967-68.)

## 330. PHYTOGEOGRAPHY (3)

*Wistendahl*

Theories and principles of plant distribution as related to evolution, migration, and speciation of plants. Prereq., 9 hrs. beyond 4, incl., plant taxonomy or ecology. (1st sem., 1967-68.)

## 343. BOTANICAL STUDIES (2 to 4 a semester in any of the following)

Semi-independent studies supervised by the instructor. May include interdepartmental projects. Maximum credit in any listed area, 6 hrs.; total for all areas, 9 hrs. Prereq., 12 hrs., including one listed course in that area, and permission.

- a. PLANT MORPHOLOGY—studies of the fundamental plant form, structure, life cycles, and reproduction. *Blickle*.
- b. PLANT ANATOMY—studies in the detailed structure of cells and tissues of root, stem, leaf, flower, fruit, and seed. *Blickle, Graffius*.
- c. PLANT PHYSIOLOGY—studies in the primary functions, processes, and growth phenomena of plants. *Larson, Wallace*.
- d. PLANT ECOLOGY—studies in the interrelations of plants with one another and the environment. *Wistendahl*.
- e. PLANT TAXONOMY—studies in the identification, nomenclature, classification and phylogeny of plants, based on the native flora. *Gambill*.
- f. PLANT PATHOLOGY—studies in the nature, prevention, cause, and control of plant diseases. *Vermillion*.
- g. PALEOBOTANY—studies in the organ history, morphology and classification of vascular plant fossils. *Blickle*.
- h. MYCOLOGY—advanced studies of nonpathogenic macrofungi and microfungi. *Miller*.
- i. CYTOLOGY AND CYTOGENETICS—studies of cell structure and functions; chromosome structure, composition, and behavior. *Cohn*.
- j. PHYCOLOGY—studies in the identification, classification, morphology, life cycles and ecology of algae. *Graffius*.

## 350. BOTANICAL LITERATURE (2)

*Staff*

Introduction to the professional journals in the various branches of plant science; to significant reference works, including encyclopedic, biographical and bibliographical sources; and to special publications such as those emanating from symposia and congresses. Prereq., 20 hrs. (Yearly.)

**360. PHYCOLOGY (4)***Graffius*

Classification, life histories, morphology, physiology and ecology of fresh-water and marine algae. 3 lec., 3 lab. Prereq., 205, 242; 173 or similar introductory course in study of algae is recommended. (1st sem., 1967-68.)

**391, 392. SEMINAR IN BOTANY (1, 1)***Staff*

Presentation of papers based on individual research or on readings in current botanical literature. Required of all senior majors and graduate students. Maximum credit in course, 2 hrs. Prereq., 15 hrs., permission. (Each sem.)

**481. RESEARCH PROBLEMS (1 to 4)***Staff*

Independent research leading to the master's thesis. Maximum credit in course, 6 hrs. Prereq., 18 hrs., permission.

**495. THESIS (As recommended by dept.)***Staff*

Prereq., permission.

**BUSINESS COMMUNICATIONS**

*Assistant Professor Rutkoskie (chairman)*

*Instructor Sharpe*

*Part-time Instructor Sager*

**120. BUSINESS COMMUNICATIONS I (3)***Staff*

Development of high standards of performance in writing for business. Prereq., Eng. 4.

**220. BUSINESS COMMUNICATIONS II (3)***Staff*

Development of ability to write effective reports for business, industry, and government. Prereq., 120.

**BUSINESS LAW**

*Professor Howard*

*Assistant Professors Kloss (chairman), Notestine*

**255-256. LEGAL ENVIRONMENT OF BUSINESS I AND II (3-3)**

*Howard, Kloss, Notestine*

An environmental approach to the study of the law of contracts, business associations, commercial paper and sales with emphasis on the business, social and legal responsibilities. Prereq., junior or senior rank.

**342. LAW OF REAL ESTATE**

(2 or 3 as scheduled)

*Howard, Kloss, Notestine*

Deeds, mortgages, leases, and other interests in real property, and the relationships between landlord and tenant. Prereq., 256 or permission.

**362. LAW OF ESTATES AND TRUSTS**

(2 or 3 as scheduled)

*Howard, Kloss*

The nature, creation, administration, and disposition of estates and trusts along with the principles of law pertaining thereto, and a consideration of the problems involved in planning an effective and economical gift distribution of property interests. Prereq., 256.

**375. GOVERNMENT AND BUSINESS (3)**

*Howard, Kloss, Notestine*

A study of statutes and court decisions by which government controls, regulates, and aids business under the commerce clause, the police power, and the anti-trust laws. Prereq., 255 or permission.

**381. RESEARCH IN LAW (1 to 8)**

*Staff*

Prereq., 18 hrs. business administration including 256 and permission.

**CHEMISTRY**

*Professors Brooks, Clippinger, Day, Eblin, Huntsman (Chairman) Ingham, Kline, Sympson*

*Associate Professors Paudler, Tong*

*Assistant Professors Clearfield, Hendricker, Jewett, Westenbarger, Winkler*

A student who completes the requirements for the B.S. degree with a major in chemistry is eligible for professional status in the American Chemical Society in the minimum period of two years of professional experience after graduation. Completion of the minimum requirements for the A.B. degree with a major in chemistry does not qualify a student for certification to the Society.

The major requirement for the B.S. degree includes General Chemistry and Qualitative Analysis; Chemistry 34; 201-202; 205; 209; 305; 313-314; 315; 321; 333; and three additional hours above 300. Extra-departmental requirements include Mathematics 102 and Physics 114, which should be completed by the end of the second year.

The major requirement for the A.B. degree includes General Chemistry and Qualitative Analysis; Chemistry 34; 107 or 209; 113 or 201-202; 117 or 205; 311 or 313-314. A full year's work is required in at least one of the following fields: Quantitative Analysis (107, or 209; 305); Organic (201-202); Physical (313-314). Six hours in chemistry courses about 300 are required.

Students having foreign language requirements should take German, including 103. Those anticipating graduate study should obtain a reading knowledge of German and Russian, or German and French.

**3-4. GENERAL CHEMISTRY (4-2)**

*Staff*

3 lec. 3 lab. 1st sem.; 2 lec., no lab. 2nd sem. Concurrent registration in 99 required in 2nd sem. Prereq., high school algebra. (Each sem.)

**7. GENERAL CHEMISTRY AND  
QUALITATIVE ANALYSIS (5)**

*Staff*

A one-semester course for students with superior training in high school science and mathematics. Satisfies University College requirement of 1 year of laboratory science. 4 lec., 3 lab. Prereq., high-school algebra, chemistry, and physics, and qualification by examination. Not advised for preprofessional students in dentistry, medicine, and pharmacy. (1st sem. yearly).

**34. CHEMICAL CALCULATIONS (1)**

*Staff*

Stoichiometry, mole concept, equation writing, and chemical equilibrium. Intended primarily for chemistry majors. Prereq., 3 or 7. (Each sem.).

**99. QUALITATIVE ANALYSIS (2)**

*Staff*

The separation and identification of cations and anions by methods illustrating the principles of chemical equilibrium and solubility relations. 1 lec., 3 lab. Prereq., 3, concurrent registration in 4. (Each sem.)

**107. QUANTITATIVE ANALYSIS (4)**

*Clippinger*

A course in analytical chemistry for students not majoring in chemistry. 2 lec., 6 lab. Prereq., 7, or 4 and 99. (Each sem.)

**113. ORGANIC CHEMISTRY (4)**

*Ingham, Paudler*

A course in organic chemistry for students who are not B.S. majors in chemistry. Prereq., 7, or 4 and 99. (Yearly.)

**117. ORGANIC CHEMISTRY LABORATORY (2)**

*Ingham, Paudler*

A course in organic preparations and reactions to accompany 113, or 201-202 as approved. 6 lab. Prereq., 113 or with 113, or 202 or with 202. (Each sem.)

**201-202. ORGANIC CHEMISTRY (3-3)**

*Huntsman, Winkler*

A comprehensive course for chemistry majors which integrates current concepts with a sound classical background. Prereq., 7, or 4 and 99. (Yearly.)

**205. ORGANIC CHEMISTRY LABORATORY (2)**

*Jewett, Winkler*

For chemistry majors. 6 lab. Prereq., 202 or with 202. (Each sem.)

**209. QUANTITATIVE ANALYSIS (4)**

*Clippinger, Sympson*

A course in the fundamentals of gravimetric and volumetric analysis for chemistry and chemical engineering majors. Prereq., 7, or 4 and 99. (Each sem.)

**303. ADVANCED QUANTITATIVE ANALYSIS (3)**

*Sympson*

A lecture course in classical analytical chemistry for entering graduate students needing further training in analytical chemistry. Prereq., 314 (Yearly.)

**305. INSTRUMENTAL ANALYSIS (4)**

*Sympson*

Methods of instrumental analysis: potentiometry, polarography, coulometry, emission and absorption spectroscopy, X-ray spectra, X-ray diffraction, and chromatography. 2 lec., 6 lab. Prereq., 311 or 313. (Each sem.)

**311. PHYSICAL CHEMISTRY (3)**

*Clearfield, Eblin*

For students in pre-medicine, comprehensive science, and A.B. chemistry majors. Recommended as a graduate minor for fields other than chemistry. Prereq., 12 hrs. chem., 5 hrs. math. (1st sem., yearly.)

**313-314. PHYSICAL CHEMISTRY (3-3)**

*Brooks, Day, Westenbarger*

Analysis of the underlying physical principles that govern chemical behavior. Topics include kinetic theory, structure of matter, thermodynamics, chemical equilibrium, solutions, and reaction rate. Prereq., 107 or 209, or with 107 or 209; Math. 102; Phys. 114. (yearly.)

**315. PHYSICAL CHEMISTRY LABORATORY (2)**

*Eblin*

6 lab. Prereq., 311 or 313 or with 311 or 313. (Each sem.)

**317. CHEMICAL THERMODYNAMICS (3)**

*Day, Westenbarger*

Prereq., 314. (1st sem., yearly.)

**318. PHYSICAL CHEMISTRY (3)**

*Brooks, Clearfield, Westenbarger*

Introduction to quantum chemistry. Prereq., 314 (Yearly.)

**321. QUALITATIVE ORGANIC ANALYSIS (4)**

*Ingham, Winkler*

The separation and identification of organic compounds. Applications of spectroscopic methods are emphasized. 2 lec., 6 lab. Prereq., 205, 305.

**323. ORGANIC CHEMISTRY SURVEY (3)**

*Huntsman, Jewett*

Basic reactions and concepts of organic chemistry. Not open to undergraduates. (1st sem., yearly.)

**333. INORGANIC CHEMISTRY (3)**

*Hendricker, Kline*

Inorganic chemical reactions and structure. Prereq., 311 or 313; or with 311 or 313. (1st sem., yearly.)

**335. RADIOCHEMISTRY (3 or 4)***Tong*

An introductory course in the application of isotopes to problems in chemistry, and the chemical effects of the radiation and mass of isotopes. 2 lec. and 3 or 6 lab. (Yearly.) Prereq. 209.

**350. CHEMICAL LITERATURE (2)***Staff*

Introduction to chemical literature in journals, handbooks, monographs, and patents. Particular emphasis will be given to selected problems in finding, assembling, and using chemical data. Prereq., 24 hrs.; reading knowledge of German.

**351. SPECIAL PROBLEMS IN CHEMISTRY (2 or 3)***Staff*

Minor research with laboratory and library work. Maximum credit in course, 6 hrs. Prereq., junior or senior standing with B average in chem. (Each sem.)

**405. ELECTROCHEMICAL METHODS OF ANALYSIS (3)***Sympson*

A course dealing with the fundamentals and applications of potentiometric titrations, conductometric titrations, coulometry, voltammetry, amperometric titrations, and chronopotentiometry. Prereq., 305.

**406. OPTICAL METHODS OF ANALYSIS (3)***Sympson*

Application of emission spectroscopy, absorption spectroscopy, X-rays, fluorophotometry, nephelometry, and turbidimetry to chemical analysis. Prereq., 305.

**408. MODERN TECHNIQUES OF CHEMICAL SEPARATIONS (3)***Staff*

The fundamentals and applications of ion exchange, chromatography, electrodeposition, electrophoresis, and extraction. Prereq., 303.

**410. SPECIAL TOPICS IN ANALYTICAL CHEMISTRY (2 or 3)***Staff*

Topics of special interest in analytical chemistry. Electronics, nuclear magnetic resonance, solvents, and organic reagents. Prereq., permission.

**418. CHEMICAL KINETICS (3)***Day, Tong*

Insight into the mechanisms by which chemical reactions occur and the energies involved, through interpretation of data on rates of reactions. Prereq., 314. (2nd sem., yearly.)

**425. QUANTUM CHEMISTRY (3)***Brooks, Westenbarger*

The fundamentals of quantum theory and their application to some systems of chemical interest. Prereq., 318.

**427. MOLECULAR STRUCTURE (3)***Brooks*

Prereq., 318.

**429. STATISTICAL THERMODYNAMICS (3)***Day*

Prereq., 317.

**434. ADVANCED INORGANIC CHEMISTRY (3)***Clearfield, Hendricker, Tong*

Modern theoretical inorganic chemistry. Prered., 333. (2nd sem., yearly.)

**437. SOLUTIONS (3)***Tong*

Selected topics in solution thermodynamics and kinetics, such as stoichiometry, theories of electrolytes, electrochemistry, irreversible processes, kinetics of induced reactions, acid-base catalysis, photochemistry, and heterogeneous reactions. Pre-req., 314.

**439. LESS FAMILIAR ELEMENTS (3)***Hendricker, Kline*

The chemistry of lanthanide and actinide elements, other less familiar elements, and less familiar oxidation states of common elements. Prereq., 333.

**441. COORDINATION COMPOUNDS (3)***Kline, Tong*

The classification, nomenclature, synthesis, structure, equilibrium and kinetics of substitution and isomerization reactions of coordination compounds, and the nature and energetics of the coordination bond. Prereq., 333.

**442. ADVANCED BIOCHEMISTRY (3)***McQuate, Wilson, Winkler*

Same as Zool. 442. Enzyme kinetics, metabolic pathways, protein synthesis, and related topics. 3 lec. Prereq., Zool. 335; Physical chem. (2nd sem., yearly.)

**445-446. ADVANCED ORGANIC CHEMISTRY (3-3)***Jewett, Paudler*

Modern aspects of organic chemistry with emphasis on the relationships between structure and reactivity. Prereq., 202. (Yearly.)

**451, 452. SEMINAR IN CHEMISTRY (1, 1)***Staff*

Required of all graduate students in chemistry each semester in residence.

**469, 470. STRUCTURE DETERMINATION BY SPECTROSCOPIC METHODS (2, 2)***Staff*

Modern methods for determining molecular structure are considered. Topics included are nuclear magnetic resonance, electron paramagnetic resonance, infrared, Raman, ultraviolet, and visible spectroscopy.

**471. PHYSICAL ORGANIC CHEMISTRY (3)**  
*Jewett, Winkler*  
 The application of modern concepts to the mechanisms of organic reactions. Both ionic and free-radical reactions are discussed. The impact of quantum mechanics on theoretical organic chemistry is emphasized. Prereq., 446.

**474. ALKALOIDS (2)**  
*Paudler*  
 General principles of isolation, structure determination, and biogenesis of alkaloids and related substances. Prereq., 446.

**475. TERPENES (3)**  
*Huntsman*

The chemistry of terpenes and related compounds, with particular emphasis on classical and modern methods of proving structure. Prereq., 446.

**477. HETEROCYCLIC COMPOUNDS (2 or 3)**  
*Ingham*

Principal heterocyclic systems, including some related natural products. Prereq., 446.

**479. ADVANCED TOPICS (2 or 3)**  
*Staff*

Special topics as required for advanced students. Prereq., permission.

**480. RESEARCH TECHNIQUES (3)**  
*Staff*

Lectures and laboratory practice in skills of research, such as glass-blowing, vacuum work, crystallization, and distillation. Prereq., permission.

**481. RESEARCH IN CHEMISTRY**  
 (As recommended by dept.)  
*Staff*

Prereq., 36 hrs. (Yearly.)

**495. THESIS (As recommended by dept.)**  
*Staff*

Prereq., permission.

**581. DOCTORAL RESEARCH IN CHEMISTRY**  
 (As recommended by dept.)  
*Staff*

**595. DISSERTATION**  
 (As recommended by dept.)  
*Staff*

## CLASSICAL LANGUAGES

Greek  
 Latin

*Professor Murphy (Chairman)  
 Assistant Professor Urdahl  
 Instructor Hultgren*

Two types of courses are included: (1) courses in the Greek and Latin languages in the original; (2) courses requiring no knowledge of the original languages.

The major requirement in Latin for the A.B. degree is a minimum of 24 hours above courses 1-2, exclusive of courses in class (2) above. Majors in Latin should include courses 331 and 333.

A major in Greek is not offered, but Latin majors are encouraged to take as much Greek as possible. Students who plan to do graduate work in Latin should plan a dual major in Greek and Latin.

## GREEK

**1-2. BEGINNING GREEK (Completion after 2 yrs. h. s. Greek adds 8 hrs. to graduation requirement.) (Yearly.) (4-4)**  
*Hultgren, Urdahl*

**27. GREEK WORDS IN ENGLISH (2)**  
*Murphy*

Terms of Greek origin which provide a major part of the technical vocabulary in many cultural and professional fields. No knowledge of Greek required. No credit toward meeting the foreign language requirement or the humanities requirement for the A.B. or B.S. degree. (Most semesters.)

**101-102. GREEK PROSE AND POETRY (3-3)**  
*Murphy, Urdahl*

Review of language principles. Readings from Homer, Plato, Xenophon, and the New Testament. Prereq., 2. (Yearly.)

**309. ADVANCED GREEK READINGS (1 to 3)**  
*Hultgren, Urdahl*

Selections from the poets, dramatists, orators, and philosophers. Maximum credit in course, 9 hrs. Prereq., 12 hrs. (Yearly.)

## LATIN

**1-2. BEGINNING LATIN (Completion after 2 yrs. h. s. Latin adds 8 hrs. to graduation requirement.) (Yearly.) (4-4)**  
*Urdahl*

**101. LATIN REVIEW AND READING (4)**  
*Murphy*

For those who need a thorough review. Prereq., 2 or 2 yrs. high school Latin. (1st sem., yearly.)

**102. VERGIL (4)**  
*Hultgren, Murphy*

Readings from *Aeneid*, Book I-VI. Prereq., 101 or 3 yrs. high school Latin. (2nd sem., yearly.)

**251. FAMILIAR ESSAYS (3)**  
*Urdahl*

Cicero's *De Amicitia*, *De Senectute*, *Somnium Scipionis*. Review of essential Latin. Prereq., 102, 4 yrs. high school Latin, or 3 yrs. high school Latin and permission. (1st sem., yearly.)

**252. HORACE AND TERENCE (3)***Urdahl*

A comedy by Terence and selections from Horace's *Odes* and *Epodes*. Prereq., 102 or 4 yrs. high school Latin. (2nd sem., yearly.)

**264. THE TEACHING OF HIGH SCHOOL LATIN (2)***Murphy*

Prereq., 102. (2nd sem., 1966-67.)

**303. PLINY AND MARTIAL (3)***Murphy*

Letters and epigrams revealing the human side of Roman life and society from Nero to Trajan. Prereq., 252. (1st sem., 1968-69.)

**304. LIVY AND OVID (3)***Urdahl*

The legendary history of early Rome and mythology in verse. Prereq., 252. (2nd sem., 1966-67.)

**311. CICERO (LETTERS) AND CATULLUS (POEMS) (3)***Hultgren*

Prereq., 252. (1st sem., 1966-67.)

**318. READINGS IN LATIN LITERATURE (1 to 4)***Hultgren, Murphy*

Selections from a wide range of Latin literature. Maximum credit in course, 10 hrs. Prereq., 252. (Both semesters, 1967-68.)

**331. THE LIFE OF THE ROMANS (2)***Hultgren*

The family, the house, transportation, public amusements, and related features. Illustrations from the archaeological evidence. Prereq., 8 hrs. 8 hrs. history and antiquities. No knowledge of Latin required. (Given upon sufficient demand.)

**333. ADVANCED LATIN SYNTAX (2)***Murphy*

Prereq., 252. (Given upon sufficient demand.)

**340. SPECIAL WORK IN LATIN (1 to 4)***Hultgren, Murphy*

Specialized work in selected phases of Classical study. Maximum credit in course, 8 hrs. Prereq., 252.

**DRAMATIC ART**

(See Speech)

**ECONOMICS**

*Professors Crewson, Hellebrandt, Levinson, (chairman), Picard*

*Associate Professors Charlé, Darcy*

*Assistant Professors Bogar, Bradfield, Hall, Koshal, Levine, Vedder*

A student may secure an A.B. degree with a major in economics. This program is designed to

give a broad cultural background for those who plan careers in such areas as business, government, or law. This program also provides the basis for those who plan to attend graduate school to prepare for teaching and economics research.

The major requirement in economics is 24 semester hours including Economics 11-12 (or 101-102), 333 and 350. Courses highly recommended are Finance 110, Economics 330, and Statistics 155.

Suggested electives should be chosen from government, history, philosophy, psychology, sociology, and other social sciences with the approval of the adviser.

**11-12. PRINCIPLES OF ECONOMICS (3-3)***Staff*

The basic theory and economic analysis of prices, market, production, wages, interest, rent, and profits. The second half of the course is concerned with the economic problems and economic institutions of society. Among the problems analyzed are labor unions, money and banking, taxation, public utilities, international trade, business cycles, and agriculture. The first half is designed to serve as a terminal course for students desiring one semester of work in economics. Not open to juniors and seniors.

**101-102. PRINCIPLES OF ECONOMICS (3-3)***Staff*

Description same as for 11-12. Not open to freshmen nor to those who have had 11 and 12.

**131. ECONOMIC HISTORY OF THE UNITED STATES (3)***Vedder*

A study of the economic factors in the development of the United States including the historical growth of economic institutions such as banking, manufacturing, labor unions, and agriculture, from colonial times to the present. Prereq., 12 or 102.

**132. ECONOMIC HISTORY OF MODERN EUROPE (3)***Vedder*

Economic factors in the development of Western Europe from the decline of medievalism to present-day neo-mercantilism. The interrelationships between economic institutions and imperialism, wars, and similar developments are considered. Prereq., 12 or 102.

**151. CURRENT ECONOMIC PROBLEMS (3)***Levinson*

Application of economic theory to current economic problems with emphasis upon the public-policy implications. Examples of topics considered are: depressed areas, technological unemployment, economic growth, inflation, and agricultural instability. Prereq., 12 or 102 or permission.

**304. REGIONAL ANALYSIS (3)***Koshal*

Theories of regional and interregional relationships and policies for regional development. Consideration of economic, geographic, demographic, political, and social factors. Prereq., 12 or 102.

**305. ECONOMICS OF TRANSPORTATION (2 or 3 as scheduled)**

*Koshal*

Prereq., 12 or 102.

**307. ECONOMICS OF POVERTY (3)**

*Darcy*

Causes and consequences of poverty in an affluent society. A review of the economic basis of public issues involving the reduction of poverty. Prereq., 12 or 102.

**309. PUBLIC UTILITIES (2 or 3 as scheduled)**

*Bogar, Levinson*

The economic basis of the public utility concept and its relation to business organization. The nature, scope, development, legal organization, and regulation of public utilities. Prereq., 12 or 102.

**315. PUBLIC FINANCE (3)**

*Hall*

Analysis of spending and taxing functions of federal, state, and local governments. The growing importance of fiscal policy in determining level of employment. The economic effects of the various taxes of federal, state, and local governments. Prereq., 12 or 102.

**320. ORGANIZATION AND STRUCTURE OF INDUSTRY (3)**

*Bogar, Charlé*

Emphasizes the economic characteristics of the principal manufacturing and processing enterprises, and considers their historic development, financial organization, and legal aspects, Prereq., 12 or 102.

**325. ECONOMIC POLICY AND INDUSTRIAL ORGANIZATION (3)**

*Bogar, Charlé*

An examination of the social consequences of monopoly and competition, trends in industrial concentration, the consequences of bigness, the relationship between market structure and national income, and the concept of "workable" competition. National policy relating to economic concentration and market structure will be considered as well as the impact of this national policy on United States business. Prereq., 12 or 102.

**329. COMPARATIVE ECONOMIC SYSTEMS (3)**

*Charlé, Crewson*

An analysis of the institutional framework of the following systems: modified capitalism, socialism, communism, and fascism. Special emphasis is given to the prevailing economic institutions in the United States, Great Britain, Russia, and Spain. Prereq., 12 or 102.

**330. HISTORY OF ECONOMIC THOUGHT (3)**

*Picard*

The historical evolution of the major economic doctrines; mercantilists and cameralists, physiocrats, Adam Smith and the classical school, the historical school, the Austrian school, Alfred Marshall and the neo-classicists. Prereq., 12 or 102.

**332. MODERN ECONOMIC THOUGHT (3)**

*Picard*

An analysis of the contributions to economics of the most significant writers since Alfred Marshall. Prereq., 12 or 102.

**333. ECONOMICS OF THE FIRM (3)**

*Bradfield, Koshal, Levine*

An intensive study of the price system as an allocative mechanism. This includes the price and production policies of individual firms under alternative market conditions and an analysis of the effect of these policies on the social efficiency of resource allocation. Prereq., 12 or 102.

**335. LABOR ECONOMICS (3)**

*Levinson*

Survey of the economic forces generating modern labor problems. Among the topics considered are: history of the labor movement, labor in politics, labor-management relations, wages, and full employment. Prereq., 12 or 102.

**338. LABOR LEGISLATION (3)**

*Levinson*

Survey of the law bearing upon labor problems. Among the topics considered are: labor-relations legislation, old-age and unemployment insurance, workmen's compensation, and wages-and-hours legislation. Prereq., 12 or 102.

**342. INTERNATIONAL ECONOMICS (3)**

*Picard*

A study of the economic relations of nations of the world. Some of the topics considered are: the economic basis for international trade and investment; the mechanics of international exchange; tariffs, quotas, exchange control, cartels, and state trading as devices of economic nationalism; and international economic cooperation with special reference to organizations affiliated with the United Nations. Prereq., 12 or 102.

**350. NATIONAL INCOME AND EMPLOYMENT ANALYSIS (3)**

*Bogar, Bradfield, Koshal, Levine*

A study of the factors which determine the level of the nation's economic activity and which are responsible for growth and stability in the nation's economy. Part of the course is devoted to measures of the national income while the remainder consists of an analysis of the interrelationships among production, price levels, relative prices, employment, and capital formation. Prereq., 12 or 102.

**355. MATHEMATICAL ANALYSIS IN ECONOMICS (3)**

*Bradfield, Koshal*

Designed to acquaint the student with rudimentary mathematical techniques and their application to economic analysis. Problems and examples. Prereq., Stat. 155.

**362. INTRODUCTION TO ECONOMETRICS (3)**

*Staff*

Survey of the major areas of econometric work; sources and uses of quantitative information in

economics; techniques and results of econometric work on demand, production, cost functions, and income and wealth distribution. Prereq., 355 or permission.

**375. ECONOMIC DEVELOPMENT (3)**

*Charlé, Crewson*

An analysis of the nature of, obstacles to, and future possibilities for the economic growth of nations. Special emphasis is given to the problems of the underdeveloped countries. Studies of selected countries are utilized. Prereq., 12 or 102.

**376. AFRICAN ECONOMIC DEVELOPMENT (3)**

*Charlé*

Prospects for the economic development of sub-Saharan Africa. Among topics considered are: its economic history, population, resources, capital investment, international trade, and the kinds of institutions which best foster economic growth. Prereq., 375.

**378. ECONOMICS OF THE SOVIET UNION (3)**

*Bogar*

Survey of the operation of the economy of the Soviet Union. Among the topics covered are: allocation of resources, planning, saving and investment, agriculture, public finance, the price system, and international trade. Prereq., 12 or 102.

**380. STUDIES IN ECONOMICS (1 to 3)**

*Staff*

Directed readings and/or research in selected fields of economics. Topics selected by student with advice of staff member. Prereq., 12 hrs. and permission.

**381. RESEARCH IN ECONOMICS (1 to 8)**

*Staff*

Prereq., 15 hrs. and permission.

**391. SEMINAR IN ECONOMICS (2 to 4)**

*Staff*

Maximum credit in course, 10 hrs. Prereq., 15 hrs. and permission.

**450. ADVANCED ECONOMIC THEORY (3)**

*Staff*

Partial and general equilibrium aspects of markets and prices with emphasis on economic theory as an aid to understanding the allocation process. The relevance of the market environment to the individual decision maker is stressed. Prereq., permission.

**451. ADVANCED ECONOMIC THEORY (3)**

*Staff*

An application of Keynesian and Post-Keynesian macroeconomic theories to the determination of income, employment, and prices. A study of the aggregative framework within which individual decisions are made. Prereq., permission.

**495. THESIS (As recommended by dept.)**

*Staff*

Prereq., permission.

## EDUCATION

### Elementary Education Special Education-Elementary Secondary Education

### Professional Laboratory Experience

### General Education

### Guidance and Counseling

### Research and Scientific Techniques

### School Administration

### and Supervision

*Distinguished Professor G. Hill  
Professors Crowell (dean), Hicks, Hummel,  
Ploghoft, Shoemaker, Shuster  
Associate Professors Boyd, Cooper, Evans,  
Felsinger, Green, Krantz, Lynn, Milliken,  
Mills, Ploutz, C. Roberts, Sligo, Stanger  
Assistant Professors Creason, D'Augustine,  
Dressel, Dumond, Eisen, Ginther, Graham,  
Grubb, F. Hill, Holand, Howard, Hoy,  
M. Johnson, Lackey, Leep, Leighty, Lifsey,  
Mallan, V. Nelson, Nitzschke, Oates, O'Hanlon,  
Roaden, J. Rodgers, W. Rodgers, Schilson,  
Shrigley, Starks, B. Thompson, Ullmann,  
Wagoner, Yovichin  
Instructors Bartels, Cotton, DuVall, Erickson,  
Iman, Gaetano, Myers, Niederhuber, Osborne,  
Pinney, Radford, S. Smith, J. Thompson,  
Yarington  
Lecturer Ray*

## ELEMENTARY EDUCATION

**102. LITERATURE FOR CHILDREN (3)**

*Staff*

Experiences with children, preparation of materials for use in the literature program, and criteria for evaluating books written for children. Prereq., 103.

**103. STUDIES OF CHILDREN (3)**

*Schilson, Stanger*

Bases for a developmental theory of education; growth sequences through adolescence; principles of development, behavior, and learning; techniques of child-study; systematic observation in the University Elementary School; implications for educational practice. Prereq., 277, admission to teacher education.

**163. TEACHING THE LANGUAGE-ARTS OF  
THE ELEMENTARY SCHOOL (4)**

*Cooper, Yarington*

Pre-service preparation for developmental teaching of oral communication, reading, and written expression; texts and supplementary readings, lectures and discussion, films and other resources, observations, and projects for practical competence. Prereq., 103, admission to Jr. standing in teacher education.

**165. TEACHING OF MATHEMATICS IN THE  
ELEMENTARY SCHOOL (3)**

*D'Augustine, Smith*

A developmental approach to the teaching of the fundamental operations in the sets of whole and

fractional numbers and an introduction to selected elementary school mathematics topics. Prereq., Math. 8, and admission to Jr. standing.

**169. TEACHING OF SOCIAL STUDIES AND SCIENCE IN THE ELEMENTARY SCHOOL (4)**

*Felsinger, Leep, Mills, Ploutz*

Materials and methods used in teaching the content subjects in the elementary schools, with special emphasis upon unit teaching, social studies skills, and practical experiences in the teaching of science. Prereq., 103, 9 hours of social science, including Geography 150, and admission to Jr. standing in teacher education.

**200. THE DEVELOPMENT OF KINDERGARTEN EDUCATION (2)**

*Starks, Staff*

The history, development, philosophy, and current trends in kindergarten education. Prereq., 103, kindergarten-primary majors or permission. Not open to freshmen.

**201. MATERIALS AND METHODS IN KINDERGARTEN-PRIMARY EDUCATION (2)**

*Starks, Staff*

A study of work and play activities of early childhood, and the development, use, and care of materials best suited to this age group. Prereq., 103, 200, and kindergarten majors or permission.

**209. PROBLEMS IN EDUCATION (1 to 6)**

*Staff*

Prereq., permission.

**211. THE CHILD AND THE CURRICULUM (3)**

*Creason, Staff*

Emphasis is placed upon the service role of the curriculum to children and society. Prereq., senior.

**263. TEACHING OF MATHEMATICS IN THE UPPER GRADES (3)**

*Smith, Staff*

Organization and methods of teaching the subject matter of the mathematics curriculum in grades 7 and 8; the number system.

**303. ADVANCED STUDIES OF CHILDREN (3)**

*Schilson, Stanger*

An intensive study of basic research in child development. Prereq., 15 hrs. ed. or psych. or permission.

**310. READING LABORATORY PRACTICUM (1 to 6)**

*Cooper*

Application of developmental approach to problem cases in reading instruction—participation in diagnostic examination, parent and teacher conferences, individual procedures in tutoring, staffing of cases, and preparation of reports; weekly group

discussion period (W 3, 4), laboratory sessions arranged. Prereq., permission.

**411. PROBLEMS IN THE ELEMENTARY CURRICULUM (3)**

*Staff*

A critical study of the basic issues and theories underlying curriculum development. Prereq., permission.

**417. CURRICULUM AND PROBLEMS IN ELEMENTARY SOCIAL STUDIES (3)**

*Felsinger*

To enable teachers in service to become better acquainted with the trends in the modern social studies curriculum. Prereq., Ed. 169 or permission.

**418. MODERN ELEMENTARY MATHEMATICS CURRICULUM (3)**

*D'Augustine*

The modern elementary mathematics curriculum with emphasis on why changes are occurring. The nature of changes as reflected from experimental programs; effect of changes on methods of teaching. Prereq., Ed. 165 or permission.

**421. MODERN PROGRAMS AND PROBLEMS IN ELEMENTARY SCIENCE (3)**

*Mills, Ploutz*

An advanced course to enable elementary teachers to prepare units of learning in currently developing areas of physical science, nature study, biology and earth sciences. The preparation of simple apparatus, use of teaching materials as related to trends in modern science teaching. Prereq., Ed. 169 or permission.

**517-521. RESEARCH AND CURRICULUM IN ELEMENTARY EDUCATION**

Critical evaluation of the literature and recent research on objectives, content, and methodology. History of instruction, current problems and issues, recent trends and emphasis in teaching practices. Impact of dominant theories of learning and philosophies of education. Research design and methodology in scientific investigations. Prereq., permission.

**517. SOCIAL STUDIES (3)**

*Felsinger*

**518. MATHEMATICS (3)**

*D'Augustine*

**519. LANGUAGE ARTS (3)**

*Cooper*

**520. READING (3)**

*Cooper*

**521. SCIENCE (3)**

*Mills, Ploutz*

**SPECIAL EDUCATION-ELEMENTARY**

Students desiring the state certificate to qualify as teachers of special education classes should consult the Dean's office regarding required courses.

- 222. DIAGNOSTIC AND REMEDIAL INSTRUCTION IN ELEMENTARY SUBJECTS (2)**

*Staff*

A laboratory course in methods of diagnosis and remedial treatment in fundamental school subjects for problem cases. Students are given opportunity to observe and work with exceptional children.

- 223. CURRICULUM FOR SPECIAL CLASSES (3)**

*Staff*

Units of work, materials, and subject matter suited to the mental ability and level of exceptional children.

- 224. EDUCATION OF SLOW-LEARNING CHILDREN (2)**

*Staff*

Prereq., permission.

- 226. METHODS AND MATERIALS FOR TEACHING SLOW-LEARNING CHILDREN LANGUAGE ARTS & SOCIAL STUDIES (4)**

*Staff*

- 227. METHODS AND MATERIALS FOR TEACHING SLOW-LEARNING CHILDREN ARITHMETIC (2)**

*Staff*

Prereq., permission.

- 228. OCCUPATIONAL ORIENTATION AND JOB TRAINING (2)**

*Staff*

Prereq., permission.

- 321. ORGANIZATION OF SPECIAL EDUCATION FOR EXCEPTIONAL CHILDREN (3)**

*Staff*

Educational needs of those who differ markedly from normality—the slow-learning, the retarded, and the gifted; the physically handicapped; the emotionally unstable and socially maladjusted; their characteristics and incidences. Adjustments within regular classrooms, special classes, and special schools; individual child study, classification, and follow-up.

- 322. CURRICULUM & PROGRAM DEVELOPMENT FOR SLOW-LEARNING CHILDREN (3 to 9)**

*Staff*

- 325. PROBLEMS IN SPECIAL EDUCATION—THE SLOW LEARNER (2 to 6)**

*Staff*

**SECONDARY EDUCATION**

- 130. SECONDARY EDUCATION (3)**

*Staff*

A historical, comparative, and contemporary study of secondary education. Emphasis is placed on the interrelations of school and society; administrative considerations such as pupil personnel, and the control, support, and organization of schools; and the objectives of education, programs of study, and student activities. Prereq., Psych. 71, and admission to teacher education.

- 229. CURRICULUM AND TEACHING PRACTICES (4)**

*Staff*

Topics which receive major consideration are curricular content and organization, principles of teaching-learning, techniques of classroom work, evaluation, and the respective roles of the student and the pupil. Prereq., 130, and admission to Jr. standing in teacher education.

- 333. EXTRA-CLASS ACTIVITIES IN THE SECONDARY SCHOOL (3)**

*Lynn*

The scope and organization of extra-class activities in the high school and their relationship to the curriculum. Prereq., permission.

- 374. IMPROVEMENT OF READING IN SECONDARY SCHOOLS (2)**

*Cooper*

The teaching of reading as a developmental process, with special reference to extending instruction beyond the elementary school; instructional materials and procedures for individuals and groups; adapting programs to individual differences; reading in the content fields; fostering growth in concepts, vocabulary and reading habits. Prereq., 9 hours, Psych. 71.

- 432. THE HIGH SCHOOL CURRICULUM (3)**

*Roberts*

The high school program of studies, contributions of various subjects, theories of curriculum construction, curriculum research, and desirable steps in the reorganization of the high school curriculum. Prereq., 359.

**PROFESSIONAL LABORATORY EXPERIENCE**

- 272. STUDENT TEACHING IN THE ELEMENTARY SCHOOL (2 to 12)**

*Evans, Staff*

To be taken concurrently with 288. Prerequisites indicated in College of Education section of catalog.

- 274. STUDENT TEACHING FOR ADVANCED STUDENTS (3)**

*Staff*

A seminar with observation, participation and limited opportunities for teaching; open only to

elementary teachers with at least three years of teaching experience and who are completing the requirements for the degree Bachelor of Science in Education. Prereq., permission.

**277. FIELD EXPERIENCE (1)**

*Evans, J. Rodgers, Staff*

A one week experience in a public school, taken at the opening of the public school year in September. This experience must be arranged through the Office of the Director of Student Teaching and with the administrative approval of the public school system. All secondary and off-campus elementary education students will be required to attend one scheduled convocation during the fall semester and receive one hour of credit. Prereq., sophomore standing.

**280. OBSERVATION AND PARTICIPATION (3)**

*Evans, Staff*

An experience in a public school or campus during a regular University session. Prereq., junior standing and permission.

**281. STUDENT TEACHING IN THE  
SECONDARY SCHOOLS (2 to 12)**

*Evans, Staff*

Prerequisites indicated in the College of Education section of catalog.

**288. STUDENT TEACHING SEMINAR (1-3)**

*Staff*

A discussion of problems encountered by the student teacher in his daily classroom experiences. Particular emphasis is given to planning, evaluation, classroom management, and pupil adjustment. This course is taken concurrently with 272 by all students in elementary education and concurrently with 281 by all students in secondary education.

**472. LABORATORY SCHOOL PROBLEMS (2)**

*Staff*

Prereq., permission.

**473. SUPERVISION OF STUDENT TEACHING  
(2 to 6)**

*Staff*

Designed to prepare students for the work of the supervising teacher in a college or university. Prereq., permission.

## GENERAL EDUCATION

**125. THE PURPOSES AND PRACTICES OF  
EDUCATION (3)**

*Lynn*

An introductory survey of the American public school system at all grade levels; objectives, curricular problems, guidance, organization, and administration as they affect the teacher. Not open to students who have had 130. Prereq., Psychology 71 and admission to teacher education.

**241. AUDIO-VISUAL TEACHING AIDS (2)**

*Oates*

Sources, selection, and use of audio-visual aids in instruction; their integration in the school program; selection, operation, and maintenance of equipment.

**358. WORKSHOP IN ECONOMIC EDUCATION  
(3)**

*Staff*

A study of basic economic concepts and practical economic problems with the view to their integration into the school curriculum. Prereq., permission. (Summer and Extension only.)

**359. GENERAL CURRICULUM (3)**

*Staff*

A critical study of the public school curriculum including a review of curriculum theories, practices, and trends in grades kindergarten through twelve. Special emphasis is given to problems in curriculum development and organization. Prereq., 211 or 229 and permission.

**388. CONSERVATION EDUCATION WORKSHOP  
(6)**

*Staff*

A field course designed primarily for teachers in service. Relationships between conservation and the natural sciences, primarily for the elementary and junior high school teacher. Approval of adviser. (Summer only.)

**416. READINGS AND RESEARCH IN HUMAN  
DEVELOPMENT (3)**

*Schilson, Stanger*

Interpretation of the scientific literature on human development as related to classroom experience in kindergarten through the twelfth grade. Independent projects delineating the developmental bases for understanding and solving selected educational problems. Prereq., 303 or permission.

**428. ADVANCED PRINCIPLES OF TEACHING  
(3)**

*Staff*

A critical appraisal of research on learning and teaching. Prereq., permission.

**450. HIGHER EDUCATION (3)**

*Hill*

A survey of the background and growth of higher education in the United States. Present status of various types of institutions will be studied. Prereq., permission.

**456. SEMINAR IN HIGHER EDUCATION (1  
hr. per sem., max. 4 hrs.)**

*Hill*

An on-going, and up-to-date, treatment of significant current developments in higher education. Prereq., Ed. 450 or its equiv.

**474. TEACHER EDUCATION (3)***Hill, Staff*

Teacher education in the United States, its history, current status, and current issues. Intended for persons planning to teach in colleges and universities which prepare teachers for the schools. Prereq., graduate standing.

**479. CONTEMPORARY COMPARATIVE EDUCATION (3)***Ray*

A comparative study of the national systems of education with special emphasis on international cooperative programs of education viewed in terms of purposes, administration, and curriculum. Prereq., permission.

**GUIDANCE AND COUNSELING****360. GUIDANCE PRINCIPLES (3)***Staff*

The need for guidance in the schools, the nature of guidance, and the major guidance services. Prereq., 6 hrs. incl. 130, and Psych. 71.

**361 a, b, c. GUIDANCE AND COUNSELING PRACTICUM (1 to 3)***Staff*

Directed practice in counseling and other guidance and student personnel services. Prereq., 360 or 367 and permission.

- a. Elementary School
- b. Secondary School
- c. College and University

**362. INFORMATION SERVICE IN GUIDANCE (3)***Hill*

The collection, evaluation, and use of occupational, educational, and related information in the guidance program. Prereq., 360 or 367.

**363. INDIVIDUAL ANALYSIS IN GUIDANCE (3)***Green*

Use of cumulative records, case study procedures, sociometric tests, group processes and the like in guidance. Synthesis of information about the client. Prereq., a course in measurement or equiv.; 360 or 367.

**364. COUNSELING IN SCHOOLS (3)***Staff*

Basic principles of counseling in an educational context. Development of sound procedural bases for counseling and educationally-oriented counseling theory. The ethics of counseling. Prereq., 360 or 367.

**365. IDENTIFICATION AND GUIDANCE OF ABLE YOUTH (3)***Staff*

A comprehensive treatment of the characteristics of superior, talented and able youth. Methods of identification of the able. Special problems of guidance and education of the able so that they

may more fully utilize their talents. Lecture, readings, demonstrations. Prereq., permission.

**366. GUIDANCE TECHNIQUES FOR THE ABLE (3)***Staff*

A special program of study and practice in testing, counseling, informational service, follow-up, and group techniques with special application to the needs of able youth. Prereq., 360 or 367.

**367. GUIDANCE IN ELEMENTARY SCHOOLS (3)***Grubb*

The need for guidance in the elementary school. The nature of guidance and of the guidance services in elementary education. Prereq., 6 hrs. and Psych. 71.

**369. GUIDANCE AND BEHAVIORAL ASPECTS OF DISADVANTAGED YOUTH (3)***Staff*

The need for special attention to disadvantaged youth. Characteristics, educational, and guidance aspects of disadvantaged. Socio-economic and psychological aspects related to choice and development.

**461. WORKSHOP IN GUIDANCE (1 to 3)***Staff*

Prereq., 360 and permission.

**462. FIELD EXPERIENCE IN GUIDANCE AND PERSONNEL SERVICES (2 to 4)***Staff*

Supervised field work. Periodic campus conferences and visitations are required. Prereq., 361 and permission.

**464. ADMINISTRATIVE RELATIONS IN GUIDANCE (3)***Hummel*

The organization and administration of guidance, community relations, legal bases for guidance. Prereq., 360 or 367.

**465. GROUP GUIDANCE: MATERIALS AND PROCEDURES (3)***Grubb*

The theoretical bases for group work in guidance. Materials and teaching procedures for group work. Laboratory work in Guidance Laboratory and Materials Center. Prereq., 362.

**567. a, b, c, 568 a, b, c. ADVANCED PRACTICUM IN GUIDANCE, COUNSELING AND STUDENT PERSONNEL SERVICES (2 to 5, 2 to 5)***Staff*

Directed practicum for advanced students in guidance and student personnel. Major attention to counseling theory and practice. Prereq., post-masters standing and permission.

- a. Elementary School
- b. Secondary School
- c. College and University

**HISTORY AND PHILOSOPHY**

- 350. THE HISTORY OF EDUCATION (3)** *Shoemaker*

Studies the agencies of education and the social forces which have conditioned them during ancient, medieval, and modern times. Prereq., 6 hrs., Psych. 71.

- 351. THE SCHOOL IN THE SOCIAL ORDER (3)** *Shoemaker*

Education in the United States from the Colonial period to the present. The social, political, economic, religious, and philosophical foundations which have conditioned the evolution of the public schools. Prereq., 6 hrs., Psych. 71.

- 353. THE EVOLUTION OF EDUCATIONAL THOUGHT (3)** *Shoemaker*

Deals solely with the educational writings of such theorists as Plato, Aristotle, Quintilian, Montaigne, Locke, Comenius, Rabelais, Rousseau, Pestalozzi, Froebel, Herbart, and Dewey. Prereq., 6 hrs., Psych. 71.

- 454. PHILOSOPHY OF EDUCATION (3)** *Shoemaker*

A comparison of pragmatism, idealism, and realism as philosophical bases for education. Each student is helped to formulate his philosophy of education. Prereq., 6 hrs.

**RESEARCH AND SCIENTIFIC TECHNIQUES**

- 381. EDUCATIONAL STATISTICS (3)** *Sligo*

The tabulation and graphical representation of frequency tables, measures of central tendency, percentiles and percentile curves, measures of variability, probability and the normal curve, testing statistical hypotheses, and correlation. Prereq., 6 hrs., Psych. 71.

- 382. ADVANCED EDUCATIONAL STATISTICS (3)** *Sligo*

Non-linear relations, partial correlation, multiple correlation and regression, various methods of correlation, and the interpretation of correlation coefficients. Practice in the use of logarithms, statistical tables, and calculating machines. Prereq., 381.

- 385. EDUCATIONAL MEASUREMENTS (3)** *Sligo*

The improvement of the essay examination; criteria for evaluating tests; teacher-made objective tests; standardized tests; elementary statistical procedures. Prereq., 6 hrs., Psych. 71.

- 478. SEMINAR IN EDUCATION (2)**

*Staff*

Advanced studies of special problems in elementary education, guidance, secondary education, and school administration. Prereq., permission.

- 483. RESEARCH IN EDUCATIONAL STATISTICS (1 to 6)** *Sligo*

An advanced course in statistics dealing with the derivation of formulae, the analysis of relationships, and the interpretation of results. Prereq., 382 and permission.

- 484. RESEARCH IN EDUCATION (1 to 6)** *Staff*

Prereq., 9 hrs., Psych. 71, and permission.

- 488. INTRODUCTION TO GRADUATE STUDY (3)**

*Staff*

Methods of research in education and the selection, planning, and evaluation of research problems. The history and purposes of graduate education. Required of all graduate students in education. Prereq., permission.

- 495. THESIS (As recommended by dept.)** *Staff*

Prereq., permission.

- 591-592. ADVANCED SEMINAR IN EDUCATION (3-3)**

*Staff*

Current literature and advanced research in education. Individual reports and discussion. Required of first year post-masters students. Prereq., permission.

- 595. DISSERTATION (As recommended by dept.)** *Staff*

Prereq., permission.

**SCHOOL ADMINISTRATION AND SUPERVISION**

- 335. WORKSHOP IN ELEMENTARY SCHOOL ADMINISTRATION (2)** *Staff*

- 340. SCHOOL PUBLIC RELATIONS (2)** *Staff*

The function of school administration in public understanding of the school's work and furthering lay participation in determination of school policy. Prereq., 6 hrs., Psych. 71.

- 410. ADMINISTRATION OF THE ELEMENTARY SCHOOL (3)** *Shuster*

The responsibilities of teachers and principals in administration, curriculum construction, supervision, plant management, and public relations. Prereq., 6 hrs., including 440.

**412. SUPERVISION OF SCIENCE INSTRUCTION (3)**

*Ploutz*

The duties of science supervisors, consultants, dept. chairmen, helping teachers in the development, implementation and evaluation of science programs in the public schools. Prereq., permission.

**430. HIGH SCHOOL ADMINISTRATION (3)**

*Lynn*

Same description and prereq. as 410.

**440. GENERAL SCHOOL ADMINISTRATION (3)**

*Staff*

An introduction to educational administration.

**441. STATE, NATIONAL AND INTERNATIONAL ADMINISTRATION OF EDUCATION (3)**

*Ray*

The state program of education, state responsibility, educational organization, certification and tenure, national educational services, federal relations to education, national problems in education, and international relations to education. Prereq., 440.

**442. EDUCATION FINANCE (3)**

*Ray*

Local, state, and federal; business management in such areas as the school budget, financial reports, school purchasing, transportation, and insurance. Prereq., 6 hrs., including 440.

**443. EDUCATION LAW (3)**

*Ray*

The constitutional basis for education, schools and their legal setting, and school legislation and court decisions, with special reference to Ohio school law. Prereq., 440.

**444. MAINTENANCE AND OPERATION OF EDUCATIONAL FACILITIES (3)**

*Roaden*

Principles and practices in the administration of school plant operations and maintenance. Designed primarily for local school administrators and directors of maintenance and operations, the course covers such areas as organization of the program; selection and training of personnel; care and repair of buildings; purchasing and handling supplies and equipment. Prereq., permission.

**445. PLANNING EDUCATIONAL FACILITIES (3)**

*Roaden*

Principles, practices, and problems in the administration of the school building program. Includes evaluation of existing facilities; surveying needs; planning programs; developing educational specifications; selection of the architect; attaining efficiency and economy through design and construction; equipping the plant; and financing the building program. Prereq., 440.

**446. SUPERVISION OF INSTRUCTION (3)**

*Staff*

The principles underlying supervision and techniques which promote the growth of teachers in

service. Laboratory experiences in analysis of teaching situations. Prereq., permission.

**447. PERSONNEL PROBLEMS IN EDUCATIONAL ADMINISTRATION (3)**

*Krantz*

Philosophy of personnel administration, development of policies covering selection, classification, certification, tenure, contracts, in-service training programs, and placement of teaching and non-teaching personnel in the schools. Prereq., 12 hrs.

**452. PROBLEMS IN BUSINESS ADMINISTRATION OF EDUCATION**

*Staff*

Intensive one-week courses, each covering a phase of business administration of public schools. Each course consists of twenty hours of lecture and fifteen hours of laboratory activities. Prereq., permission.

**452 a. ADMINISTRATION OF PUPIL TRANSPORTATION (1)**

*Staff*

Topics covered include selection, training, and supervision of bus drivers; preparation of specifications for purchase of buses; supervision of the servicing and maintenance of buses; route scheduling, pupil control, public relations, insurance problems of transportation, school bus safety.

**453. SEMINAR IN PUBLIC RELATIONS IN EDUCATION (3)**

*Staff*

New concepts and specific techniques in school-community relations; public involvement in educational planning; educational involvement in community planning. Prereq., permission.

**455. ADVANCED PLANNING OF EDUCATIONAL FACILITIES (3)**

*Roaden*

Designed primarily for advanced graduate students in school administration who possess a particular interest in school plant planning. Largely oriented toward specific planning problems, the course provides opportunity for depth treatment of areas of interest to the student as well as a greater understanding of problems encountered in planning educational facilities.

**548-549. ADVANCED THEORY AND PRACTICES OF EDUCATIONAL ADMINISTRATION (3-3)**

*Hicks*

Prereq., 9 hrs. of school administration courses and permission.

**551. ADVANCED BUSINESS ADMINISTRATION OF EDUCATION (3)**

*Hicks*

The role of business administration in public education: principles and practices of auditing, budget preparation and control, debt service insurance, legal aspects, payroll administration, personnel administration, plant operation and maintenance, purchasing, school plant planning, and supply management. Prereq., 442 and permission.

## ENGINEERING AND TECHNOLOGY

Engineering Graphics  
 Chemical Engineering  
 Civil Engineering  
 Electrical Engineering  
 Mechanical Engineering

*Dean Savage*

### ENGINEERING

#### 229. REVIEW OF ENGINEERING FUNDAMENTALS (0)

*Staff*

A review of the fundamental engineering subjects with emphasis on the type of questions usually asked on the Ohio State Professional Engineers examination. The first half of the course covers general engineering subjects and the second half, a specific field. Prereq., permission.

#### 380. COLLOQUIUM (1)

*Staff*

A series of lectures, mainly by speakers outside of the engineering field, on cultural and professional subjects, with discussion moderated by the speaker. Prereq., senior standing. (2nd sem., yearly.)

#### 391. SEMINAR (1 to 3)

*Staff*

Prereq., approval by chairman of department.

### ENGINEERING GRAPHICS

Associate Professors Nellis (chairman), Wickham  
 Assistant Professors Barnhill, Dickie, Sarchet  
 Instructor Hoffman

#### 1. ENGINEERING DRAWING (3)

*Staff*

Basic engineering drawing course covering orthographic projection, auxiliary and sectional views, dimensional, pictorial, assembly drawings, intersections, developments, fastenings and working drawings. An introduction to perspective, nomography, descriptive geometry, vector geometry, electronic circuits and printed circuit boards, is included. 3 lec., 3 lab.

#### 3. THE SLIDE RULE (1)

*Sarchet, Staff*

Slide rule computations involving multiplication and division, simple powers and roots, trigonometric functions, vectors, logarithms, fractional powers and roots of numbers. A modern 10" Log Log duplex deci-trig slide rule is required. Prereq., Math. 15 or equivalent.

#### 15. INDUSTRIAL ARTS DRAWING (2)

*Dickie, Staff*

Working drawings as they apply to the laboratory areas of industrial arts, technical writing, graphs,

charts, chalkboard techniques, bulletin board techniques. 2 lec., 2 lab. Prereq., E. G. 1. (Second semester yearly.)

#### 21. DESCRIPTIVE GEOMETRY (2)

*Staff*

Graphical solution of problems relating to points, lines, planes, solids and their projections, space visualization, curved surfaces, intersection of planes and solids. Daily exercise sheets and practical applications. 3 lec. Prereq., E. G. 1.

#### 115. MACHINE DRAFTING (3)

*Wickham, Staff*

Standard and basic representations as applied to commercial drafting and their application to detail and assembly drawings. 6 lab. Prereq., E. G. 1.

#### 122. NOMOGRAPHY (2)

*Staff*

The fundamentals of using conversion scales, alignment diagrams, and proportional charts in the graphical solution of equations. 2 lec. Prereq., Math. 15 or equivalent.

#### 126. INDUSTRIAL ARTS DRAWING (2)

*Dickie, Staff*

Architectural drafting, topographical drafting, delineations, an introduction to nomography, an introduction to descriptive geometry, and teaching methods for drawing. 2 lec., 2 lab. Prereq., E. G. 15. (First semester, yearly.)

### CHEMICAL ENGINEERING

Professors H. B. Kendall (chairman), Mayer,

Savage

Assistant Professors Baasel, Baloun, Collier,  
 Throne

#### 101. INTRODUCTION TO CHEMICAL PROCESS PRINCIPLES AND EQUIPMENT (3)

*Staff*

The application of chemistry, physics, and elementary thermodynamics to the solution of typical industrial problems. Prereq., Chem. 4, 99, Math. 16.

#### 201. INTERMEDIATE CHEMICAL ENGINEERING CALCULATIONS (3)

*Staff*

A continuation of 101 with particular application of thermodynamics to chemical engineering problems. Prereq., 101, Math. 102.

#### 202. THERMODYNAMICS AND KINETICS (3)

*Staff*

Study of thermodynamics and chemical engineering kinetics. Applications of kinetic theory to design of chemical reactors. Prereq., 201 or Chem. 314, or with 314.

**230. PRINCIPLES OF ENGINEERING MATERIALS (3)**

*Staff*

Fundamental principles underlying the behavior of engineering materials, both metallic and non-metallic. Study of relationships between structure and properties. Prereq., Chem. 4.

**233. MATERIALS AND METALLURGY (3)**

*Staff*

An introductory course for engineers. Fundamental metallurgical theory, including physical properties of metals and alloys. Prereq., Chem. 4.

**240-241. UNIT OPERATIONS (3-4)**

*Staff*

Fundamental principles of fluid flow, heat and mass transfer, and other basic unit operations with problems to illustrate the principles. Laboratory in 311 emphasizes uses of digital and analogue computers. Prereq., 101.

**301. APPLIED CHEMICAL ENGINEERING CALCULATIONS (3)**

*Staff*

Calculations involved in unsteady-state heat and mass transfer. Setting up of ordinary and partial differential equations corresponding to typical chemical engineering situations, and the methods available for their solutions, including computer and graphical techniques. Prereq., 241 and Math. 215 or permission.

**305. APPLIED ENGINEERING STATISTICS (3)**

*Staff*

Statistical design and analysis of engineering experiments. The use of statistics to obtain the maximum information from experimental data. Prereq., permission.

**312. UNIT OPERATIONS LABORATORY (2)**

*Staff*

Laboratory practice to illustrate the principles of selected unit operations and processes and to aid students in gaining confidence in the handling of pilot plant equipment. Development of ability to devise and conduct experiments with minimum supervision, and to report results satisfactorily, is stressed. Prereq., 241.

**320. UNIT PROCESSES (3)**

*Staff*

Investigation of typical industrial chemical processes from the viewpoint of the unit steps involved. Typical inorganic and organic processes are studied. Emphasis is on application of thermodynamic and kinetic theory, and on raw material and energy sources, to the lay-out and design of equipment and processes. Prereq., Chem. 113 or 201, or with 113 or 201, Sr.

**330. METALLIC CORROSION (3)**

*Staff*

Electrochemical nature of corrosion; high temperature oxidation. The influence of various atmos-

pheres, and of stress, strain and structure on corrosion. Corrosion prevention. Prereq., 230 or 233, or permission.

**333. TRANSFORMATIONS IN METALLIC SOLIDS (3)**

*Staff*

Mechanisms and kinetics of reactions in metallic solids. Diffusion, eutectoid, precipitation, martensite and other solid reactions. Morphological and orientation changes occurring with reactions. Prereq., 230 or 233, or permission.

**340-341. DESIGN AND INSTRUMENTATION (4-3)**

*Staff*

Project work involving chemical process design, including evaluation and extension of fundamental data by calculation, choice of operating conditions, estimation of costs, selection of equipment, and the application of automatic controls. Prereq., 241 or permission.

**350. INTRODUCTION TO TRANSPORT PHENOMENA (3)**

*Staff*

Introduction to heat, mass, and momentum transfer from a theoretical basis. The presentation of boundary-layer theory and its comparison with other theoretical and semi-theoretical approaches. Prereq., 241.

**390. SPECIAL INVESTIGATIONS (1 to 3)**

*Staff*

Individual or small group work, under guidance, in research or advanced study in a particular field of chemical engineering. Maximum credit, 6 hrs. Prereq., permission from chairman.

Courses listed primarily for graduate students. Refer to graduate bulletin for detailed information.

**401. ADVANCED CHEMICAL ENGINEERING THERMODYNAMICS (3)**

**420. ADVANCED PROCESS THEORY (3)**

**440. PROCESS DYNAMICS (3)**

**445. ADVANCED CHEMICAL ENGINEERING OPERATIONS (3)**

**450-451. ADVANCED TRANSPORT PHENOMENA (3-3)**

**481. RESEARCH IN CHEMICAL ENGINEERING (1 to 4)**

**490. SPECIAL TOPICS IN CHEMICAL ENGINEERING (1 to 3)**

**491-92. READINGS AND SEMINAR (1-1)**

**495. THESIS (As recommended by dept.)**

**CIVIL ENGINEERING**

*Professor Shermer (chairman)*  
*Associate Professors Badger, Olson*  
*Assistant Professors Kaneshige, Russ, Wang*  
*Instructor Fletcher*

**10. PLANE SURVEYING (3)***Staff*

Basic theory and field practice. 2 lec., 3 lab.  
 Prereq., Math. 14 or 15 or equivalent. (Both  
 semesters.)

**120. STATICS AND MECHANICS OF MATERIALS (5)***Staff*

Equilibrium of forces, friction, centroids, moment of inertia, stresses, strains, flexure, shear, torsion, elastic curve equations, compression members. 5 lec. Prereq., Physics 113 or with 113, Math. 101. (Both semesters.)

**121. DYNAMICS (3)***Staff*

Motion of particles and rigid bodies, work and energy, impulse and momentum. 3 lec. Prereq., 120, Math. 102 or with 102. (Both semesters.)

**213. SURVEYING II (3)***Staff*

Astronomical observations, spiral curves, photogrammetry. Prereq., 10 (on demand).

**223. MATERIALS LABORATORY (1)***Staff*

Behavior of engineering materials under various conditions and types of load, and principles underlying that behavior. 2 lab. Prereq., 120 or with 120 and ChE 230 or with ChE 230. (Both semesters.)

**224. FLUID MECHANICS (3)***Olson*

Statics and dynamics of viscous and nonviscous fluids, dimensional analysis and similitude, one-dimensional gas dynamics, pipe flow, principles of lift and drag, introduction to boundary layers. 3 lec. Prereq., 121, Math. 102. (Both semesters.)

**225. SOIL MECHANICS (3)***Wang*

Identification and classification of soils for engineering purposes; principles of hydromechanics and soil-mass behavior. 2 lec., 2 lab. Prereq., 120; Geol. 103. (1st sem.)

**226. FOUNDATION ENGINEERING (2)***Wang*

Determination of bearing capacities of soils. Application of soil mechanics to the design of foundation structures. 2 lec. Prereq., 225. (2nd sem.)

**227. PAVEMENT DESIGN (2)***Wang*

Theory and practice in design, construction, and maintenance of low-cost, intermediate, and high-

type highway and airport pavements; stabilization of bases and pavements; types and uses of bituminous paving mixtures. 2 lec. Prereq., 225. (2nd sem.)

**229. MECHANICS OF MATERIALS II (2)***Badger*

Theories of failure, unsymmetrical bending, shear center and other topics not covered in the usual undergraduate course. 2 lec. Prereq., 120. (1st sem.)

**230. STRUCTURAL THEORY (5)***Shermer*

Analytical methods for analysis of two-dimensional and three-dimensional structures of various types both statically determinate and statically indeterminate, influence lines, graphic statics, Williot-Mohr Diagrams. 5 lec. Prereq., 120. (2nd sem.)

**231. STRUCTURAL DESIGN I (5)***Shermer*

Design of structural components and simple structures in concrete, timber, steel and aluminum. 4 lec., 3 lab. Prereq., 230. (1st sem.)

**232. STRUCTURAL DESIGN II (2)***Shermer*

Design of complete structures or major components of structures in various materials. A continuation of C.E. 231. 4 lab. Prereq., 231. (2nd sem.)

**240. FLUID MECHANICS LABORATORY (1)***Olson*

Laboratory techniques, calibration principles, fluid and flow measurements. 2 lab. Prereq., 224 or with 224. (Both semesters.)

**241. HYDROLOGY (2)**

Precipitation data, rainfall and run-off, irrigation, flood control, erosion control, and municipal and industrial water supply. 2 lec. Prereq., 224. (2nd sem.)

**242. APPLIED HYDRAULICS (2)***Olson*

Flow and pressure distribution in multi-loop networks, dynamics of flow in pumps and turbines, uniform and non-uniform flow in open channels, culvert hydraulics, hydraulic transients. 2 lec. Prereq., 224. (1st sem.)

**249. WATER SUPPLY ENGINEERING (3)***Kaneshige*

Source, treatment, and delivery of water. Design and construction of water purification plants. 3 lec. Prereq., 241. (1st sem.)

**250. SEWERAGE AND SEWAGE TREATMENT (3)***Kaneshige*

Collection, treatment, and disposal of sanitary and industrial wastes. Design and construction of sewage disposal plants. 3 lec. Prereq., 224. (2nd sem.)

**251. WATER AND WASTE-WATER ANALYSIS (2)**

*Kaneshige*  
Laboratory methods and interpretation of results for the chemical and bacteriological examination of water and waste water. 1 lec., 3 lab. Prereq., 240, 250. (1st sem.)

**260. ROUTE ENGINEERING (3)**

Curves and spirals; geometric design of highways, earthwork problems. 2 lec. Prereq., 10. (1st sem.)

**261. TRANSPORTATION ENGINEERING (3)**

*Staff*  
A comparative analysis of the various modes of transportation, with emphasis on the inherent advantages and disadvantages of each; the planning process as applied to transportation facilities. 3 lec. Prereq., 260. (1st sem.)

**262. TRAFFIC ENGINEERING (2)**

*Staff*  
Vehicle and driver characteristics, uses of traffic control devices, intersection design and capacity, parking characteristics. 2 lec. Prereq., 261. 2nd sem.)

**313. ADVANCED SURVEYING PROBLEMS (2)**

*Staff*  
Advanced problems in plane surveying and problems in geodetic surveying. 1 lec., 2 lab. Prereq., 213, permission. (On demand.)

**315. PHOTOCRAMMETRY (3)**

Equipment and methods used in aerial photography and land measurement. Prereq., 213.

**324. ADVANCED FLUID MECHANICS (3)**

*Olson*  
Inviscid flow theory, conformal mapping, mechanics of fluid resistance, laminar and turbulent flow in ducts and boundary layers. 3 lec. Prereq., 224 and/or permission. (1st sem.)

**325. ADVANCED SOIL MECHANICS (3)**

*Wang*  
Advanced treatment of theories and principles of soil mechanics. Shearing strength, stress distribution, seepage, bearing capacity, retaining wall pressures, slope stability, consolidation and settlement analysis. 2 lec., 3 lab. Prereq., 225. (1st sem.)

**326. ADVANCED MECHANICS OF MATERIALS (3)**

*Adams*  
Advanced treatment of theories of failure, stresses and strains at a point, cross shear, unsymmetrical bending, curved beams, torsion, thick-walled cylinders, energy methods. 3 lec. Prereq., 120, Math. 215, and permission. (1st sem.)

**327. ADVANCED FOUNDATION ENGINEERING (3)**

*Wang*  
Advanced substructure analysis and design to meet various soil conditions. 3 lec. Prereq., 226 or 325. (2nd sem.)

**329. THEORY OF STABILITY (3)**

*Adams*  
Buckling of columns, beam columns, rings and plates. Prereq., permission. (1st sem.)

**332. ADVANCED STRUCTURAL DESIGN (3)**

*Shermer*  
Design of indeterminate structures. Modern design concepts and principles as applied to various construction materials. Prereq., 340. (2nd sem.)

**335. EXPERIMENTAL STRESS ANALYSIS (3)**

*Staff*  
Theory and use of strain gages, stress coats, deflection gages and photoelastic equipment. 2 lec., 2 lab. Prereq., 326. (2nd sem.)

**340. ADVANCED STRUCTURAL THEORY I (3)**

*Shermer*  
Analysis of indeterminate structures by both classical and modern methods, analysis of multistory bents, arches, closed rings, and frames with variable cross-sections, plastic theory and design. (1st sem.)

**341. ADVANCED STRUCTURAL THEORY II (3)**

*Shermer*  
Continuation of 340, relaxation methods, matrix methods, shell structures. 3 lec. Prereq., 340. (2nd sem.)

**349. WATER TREATMENT (3)**

*Kaneshige*  
Advanced study of water treatment theory. Design of treatment units. Practice in control methods. 2 lec., 2 lab. (1st sem.)

**350. ADVANCED WASTE-WATER TREATMENT (3)**

*Kaneshige*  
Advanced study of waste-water treatment theory. Design of treatment units. Practice in control methods. 2 lec., 2 lab. (2nd sem.)

**361. TRAFFIC ENGINEERING (3)**

*Staff*  
Principles of highway and street traffic movements, traffic analysis and control as affecting the geometric design of roadways and parking facilities. 2 lec., 2 lab. (2nd sem.)

**362. ADVANCED PAVEMENT DESIGN (3)**

*Wang*  
Stability of highway embankments, compaction of soils and subsidence, design of flexible and rigid highway and airport pavements, subgrade drainage, subgrade bearing capacity, frost action and related phenomena. 3 lec. Prereq., 325. (2nd sem.)

**363. SOIL STABILIZATION (3)**

*Wang*  
Requirements for and factors affecting soil stability, methods of soil stabilization, design and testing stabilized soils. 2 lec., 3 lab. Prereq., 325. (2nd sem.)

**364. BITUMINOUS PAVING MATERIALS (3)**  
*Wang*  
 Types, constituents, chemical behavior, tests, specifications, and uses of bituminous materials and aggregates in pavements. Theory and practice in design and manufacture of bituminous paving mixtures and construction of bituminous pavements. 2 lec., 3 lab. (1st sem.)

**390. SPECIAL INVESTIGATIONS (1 to 3)**  
*Staff*

**428. THEORY OF ELASTICITY (3)**  
*Adams*

Theory of stress and strain; generalized Hooke's Law; equations of equilibrium and compatibility; plane stress and plane strain problems; energy principles and variational methods; finite-difference approximations and the application of digital computer programming. 3 lec. Prereq., 326. (2nd sem.)

**481. RESEARCH IN CIVIL ENGINEERING (1 to 4)**  
*Staff*

**495. THESIS (As Recommended by dept.)**

## ELECTRICAL ENGINEERING

*Professors Gamble, Quisenberry (chairman)  
 Associate Professors Fahey, Hoffee, McFarland,  
 Miro, Selleck, G. E. Smith  
 Assistant Professors Chen, Meador  
 Instructors Chesak, Essman, Hayes, Yoxtheimer  
 Lecturer Cartland*

**105. INTRODUCTORY LABORATORY I (1)**  
*Staff*

**106. INTRODUCTORY LABORATORY II (1)**  
*Staff*

**107. BASIC ELECTRICAL ENGINEERING I (3)**  
*Staff*

A first introductory course dealing with D.C. and single-phase A.C. steady-state circuit analysis and introductory electronics. 3 lec. Prereq., Math. 101 or with Math. 101.

**108. BASIC ELECTRICAL ENGINEERING II (3)**  
*Staff*

A second introductory course dealing with transients; magnetic circuits, three-phase circuits and elementary machinery. 3 lec. Prereq., EE 107, Math. 102, or with Math. 102.

**203. ELECTROMAGNETIC ENERGY CONVERSION (3)**  
*Staff*

The general principles of magnetic coupling and electromagnetic energy conversion. 3 lec. Prereq., EE 108.

**204. ENERGY CONVERSION (3)**  
*Staff*

The steady-state properties of rotating machines, the application of principles in devices of engineering importance, introduction to state-of-the-art direct energy conversion. 3 lec. Prereq., EE 203, Phys. 114.

**205. INTERMEDIATE LABORATORY I (1)**  
*Staff*

**206. INTERMEDIATE LABORATORY II (2)**  
*Staff*

**207. ELECTRONIC DEVICES (3)**  
*Staff*

A study of the physical form, functional operation and theoretical basis of common vacuum, plasma, and solid-state, electronic devices, including diodes, triodes, tetrodes and pentodes. Linear, non-linear and piecewise linear models methods available for analysis. Simple amplifiers are introduced. 3 lec. Prereq., EE 108, Phys. 114.

**208. ELECTRONIC CIRCUITS (3)**  
*Staff*

Circuits using the devices studied in EE 207 are analyzed and designed to gain more sound knowledge of the utility and limitations of the models and methods introduced and developed there. The effect of distributed parameters will be discussed. State-of-the-art circuits are used to illustrate the principles involved and to encourage the beginning of an engineering design philosophy. 3 lec. Prereq., EE 207.

**221-222. ELECTROMAGNETICS AND MATERIALS I AND II (3-3)**  
*Staff*

A device-oriented study of electromagnetic properties of materials and processes central to electrical engineering. For example, conduction in vacuum, metals, semi-conductors, electrolytes and plasma is included. As need arises, the basic elements of electromagnetic field theory, classical and quantum statistics, and solid-state theory are developed in appropriate depth. Maxwell's equations are developed; applications include a detailed discussion of the transmission line. 3 lec. Prereq., EE 108, Math. 102, Phys. 114.

**231. LINEAR SYSTEMS AND NETWORKS I (3)**  
*Staff*

Systems, the differential equation as a model of a system, the Laplace transform, steady-state, Fourier series, network functions, block diagrams, flow graphs. 3 lec. Prereq., EE 108, Math. 102, Phys. 114.

**232. LINEAR SYSTEMS AND NETWORKS II (3)**  
*Staff*

Sinusoidal response, Frequency response vs. time response. Graphical approximations. Convolutions.—Polar plots.—Bode plots.—Stability—Routh-Hurwitz and Nyquist criteria.—Two port systems matrices, Transmission line as a two port system. Filters. Systems with time varying parameters. 3 lec. Prereq., EE 231.

**261. DIGITAL COMPUTER SCIENCE FOR ENGINEERING (1)**

*Staff*

Characteristics of general purpose computers, coding and programming engineering problems in fixed point, and solving on the LCP-30 computer. Also, programming for an algebraic compiler. Intended as an early course to facilitate problem solving in subsequent engineering courses. 1 lec.

**262. SEMINAR IN DIGITAL COMPUTER CIRCUITRY (1)**

*Staff*

A survey of digital computer logic and design. Binary notation, Boolean algebra and simplification of Boolean functions, logic circuits, functional units, a specimen computer. 1 lec. Prereq., Math. 107.

**302. COMMUNICATION ENGINEERING (3)**

*Essman*

A unified approach to the study of communications stressing the principles common to all information transmission systems-measurement of information spectrum; Fourier Series; Fourier Integral; frequency spectrum; time response; amplitude modulation (double and single sideband); frequency modulation; sampling theory; pulse modulation; noise and comparison of modulation systems. 3 lec. Prereq., EE 208.

**305. ADVANCED LABORATORY I (1)**

*Staff*

**306. ADVANCED LABORATORY II (2)**

*Staff*

**310. ELECTRONIC ENGINEERING (3)**

*G. E. Smith*

This course is the third of a sequence of courses devoted to the study of electronic circuits. More sophisticated techniques are used to illustrate the behavior of practical circuits. Attention is placed to less conventional devices and circuits. With emphasis on device limitations and practical design. Prereq., EE 208.

**320. ENGINEERING ANALYSIS (3)**

*Staff*

Application of mathematical methods to engineering problems. I-d equations, phase plane methods, Fourier transforms, probability and elementary statistics, energy methods. 3 lec. Prereq., EE 232, Math. 215, Phys. 114.

**321. ULTRA HIGH FREQUENCY ENGINEERING (2)**

*Hoffee*

A study of the theory and techniques, associated with ultra high frequency systems. Circuit elements, generation and synchronization of special waveforms, oscillators, amplification and transmission. 3 lec. Prereq., EE 222, EE 208.

**322. ELECTROMAGNETIC PHENOMENA AND DEVICES I (3)**

*McFarland*

Generation, transmission, amplification, and radiation of electromagnetics energy in the frequency range 300 mcs upwards. Discussion of klystrons, magnetrons, waveguides, striplines, resonators, masers, lasers, and special antennas. 3 lec. Prereq., EE 222.

**323. ELECTROMAGNETIC PHENOMENA AND DEVICES II (3)**

*McFarland*

A treatment of generation, transmission, radiation, propagation, amplification, and detection of electromagnetic energies as a function of frequency. Intended to provide a synoptic study of evolutionary effects observed as frequency is varied from DC to beyond visible. Emphasis on microwaves and coherent light portions of the spectrum and associated devices. 3 lec. Prereq., EE 222.

**324. RADAR SYSTEMS (3)**

*McFarland*

Introduction to microwave radar including system design. Discussion of radar transmitters, receivers and antennas. Special topics of noise, propagation, CW radar, monopulse, and doppler radar, are considered. 3 lec. Prereq., EE 222.

**325. ACOUSTICAL ENGINEERING (3)**

*Cartland*

Propagation of sound energy in free space and in enclosures. Analysis and measurements of acoustical systems; characteristics of electrotransducers. Design of horns and enclosures. A study of acoustic absorption and reflection in auditoriums. 2 lec., 2 lab. Prereq., Math. 215.

**330. STATISTICAL ANALYSIS OF SYSTEMS (3)**

*Essman*

Stationary time series, power density spectra, correlation functions, mean square error. Optimization of network in the presence of noise. Application of probability theory and sampling theory. 3 lec. Prereq., EE 320.

**331. SERVOMECHANICS (3)**

*Quisenberry*

Automatic controller theory and analysis including the study of error-rate damping, and integral control. Stability. Conventional compensation. Introduction to pole-zero control synthesis techniques.

**332. CONTROL OF ELECTRICAL MACHINERY (3)**

*Selleck*

Magnetic and electronic motor controllers, including a study of control theory and applications to given problems. 3 lec. Prereq., EE 204.

**333. INTRODUCTORY SYSTEM ANALYSIS (3)**

*Staff*

Signal Representation: circuit models of mechanical and electrical systems, and circuit analysis; analysis of feedback systems. 3 lec. Prereq., EE 107 and/or with Math. 216.

**334. CONTROL THEORY (3)***Miro*

Linear vs. non-linear control systems. Specifications of performance.—Characterization of systems, Time varying parameter systems.—Optimization and sampling in control.

**335. ADVANCED ENGINEERING ELECTROMAGNETICS (3)***Staff*

Applications of Maxwell's equations. Boundary-value problems, conformal transformations, relaxation techniques, generalized circuits, interaction of charged particles with electric and magnetic fields. 3 lec. Prereq., EE 222, Math. 215, Phys. 114.

**336. RADIATION AND PROPAGATION OF ELECTROMAGNETIC FIELDS (3)***Staff*

Plane waves in dielectric and conducting materials to include atmospheric and ionospheric media. Radiation, antennas and arrays, propagation of electromagnetic fields as pertaining to radar, communications, and research. 3 lec. Prereq., EE 222.

**337. INTRODUCTION TO PLASMA DYNAMICS (3)***Fahay*

Elementary properties and processes of ionized gases and conducting fluids. Selected topics including conductivity, transport phenomena, creation of plasma, applications and experiments. 3 lec. Prereq., EE 222, Math. 215, Phys. 115.

**342. SYMMETRICAL COMPONENTS (3)***Quisenberry*

Circuit analysis of symmetrical components. Representative of unbalanced polyphase currents and voltages by component symmetrical sets; solutions of faults on power systems. 3 lec. Prereq., EE 204.

**343. ELECTRICAL TRANSMISSION OF POWER (3)***Selleck*

Economic and electrical principles of transmission of electrical power, line equations and calculations, hyperbolic solutions of long lines, insulation and protection against transients, mechanical principles and practical line construction. 3 lec. Prereq., EE 342.

**344. ELECTRICAL DESIGN (3)***Selleck*

Fundamental design relations of electrical machinery and predetermination of performance. 3 lec. Prereq., EE 204.

**345-346. PROBLEMS IN ADVANCED A.C. MACHINERY (3-3)***Selleck*

Problems taken up deal with transient conditions in alternators, motors, and transformers. Applications of the methods of symmetrical components to unbalanced operating conditions. 2 lec., 2 lab. Prereq., EE 204.

**351. AUTOMATIC PROCESS CONTROL AND INSTRUMENTATION (3)***Cartland*

Dynamic behavior of process control systems; pneumatic hydraulic, chemical, electromagnetic. Measurements of transducers and feedback systems. Electronic data conversion and storage systems. 2 lec., 2 lab. arranged. Prereq., EE 208, EE 204, Math. 215.

**361. SEMINAR IN ELECTRONIC ANALOG COMPUTERS (1)***G. E. Smith*

A study of the basic principles of analog computation. System response determined by means of the analog computer. Prereq., Math. 215.

**362. DIGITAL SYSTEMS (3)***Miro*

Topics such as: digital systems, binary notation and devices, Boolean algebra, Karnaugh maps, register operations, introduction to sequential networks, examples of sequential systems, and coding. 3 lec. Prereq., Math. 215.

**370. FOUNDATIONS OF ELECTRICAL NETWORK THEORY (3)***Chen*

Topics such as: elementary matrix algebra, elementary linear oriented graph theory, incidence circuits and cut-set matrices, characterization of the elements of a graph, primary secondary systems of equations two terminal R graphs, three terminal R graphs, four terminal R graphs, and N-terminal R graphs (passive). 3 lec. Prereq., Math 216.

**371. NETWORK SYNTHESIS I (3)***Chen*

A study of imittance functions; leading to the realizations of positive-real functions as impedances of admittances of two terminal networks. 3 lec. Prereq., EE 231, Math. 216.

**380. SOLID-STATE DEVICES I (3)***Fahay*

Crystal structure, electronic properties of conductors, semi-conductors and insulators from the quantum approach; solid-state devices. 3 lec. Prereq., EE 222, Math. 215, Phys. 114. Not open to students taking Phys. 360.

**381. SOLID-STATE DEVICES II (3)***Fahay*

Continuation of EE 380 with emphasis upon engineering properties and applications of devices. 3 lec. Prereq., EE 380 or Phys. 360.

**390. SPECIAL INVESTIGATIONS (1-4)**

Assignments in special areas of interest. Except in unusual cases, these investigations are experimental in nature. Prereq., permission of adviser.

**401. ELECTRICAL STATION DESIGN (3)***Selleck*

403. ANALYSIS OF ENGINEERING PROBLEMS (3)  
*Gamble*
404. NON-LINEAR ANALYSIS (3)  
*Miro*
405. SYSTEM STABILITY STUDIES (3)  
*Quisenberry*
406. ELECTROMECHANICAL SYSTEMS (3)  
*Essman*
410. NETWORK SYNTHESIS (3)  
*Chen*
411. NETWORK SYNTHESIS II (3)  
*Chen*
420. CONTROL SYSTEM SYNTHESIS (3)  
*Quisenberry*
430. SYSTEMS THEORY (3)  
*Miro*
436. ADVANCED ELECTROMAGNETIC FIELD THEORY (3)  
*Staff*
437. ADVANCED PLASMA DYNAMICS I (3)  
*Fahey*
438. ADVANCED PLASMA DYNAMICS II (3)  
*Fahey*
- 439-440. WAVE INTERACTIONS IN NON-LINEAR MEDIA I-II (3-3)  
*Meadors*
451. OPTIMIZATION OF ELECTRICAL ENGINEERING SYSTEMS (3)  
*Gamble*
452. DIGITAL AND SAMPLE DATA CONTROL (3)  
*Miro*
453. CONTROL SEMINAR (3, 6, or 9 hrs.)  
*Staff*
454. NON-LINEAR CONTROL (3)  
*Staff*
455. MODERN OPTIMIZATION OF ENGINEERING SYSTEMS (3)  
*Gamble*
461. COMPUTER DESIGNS (3)  
*Miro*
462. ADVANCED DIGITAL CIRCUITS (3)  
*G. E. Smith*
463. ADVANCED LOGICAL DESIGN (3)  
*G. E. Smith*
470. LINEAR NETWORK THEORY (3)  
*Chen*
472. NETWORK TOPOLOGY (3)  
*Chen*
481. RESEARCH IN ELECTRICAL ENGINEERING (1 to 4)  
*Staff*
- 491-492. ADVANCED SEMINAR IN ELECTRICAL ENGINEERING (1-1)
495. THESIS (As recommended by dept.)
581. DOCTORAL RESEARCH (1-6)
595. DISSERTATION (1-6)
- MECHANICAL ENGINEERING**
- Professor P. H. Black (chairman)*  
*Associate Professors Adams, Hicks, Lausche*  
*Assistant Professors Asfahl,*  
*Beale, Sweeney, Williams*
201. KINEMATICS (3)  
*Sweeney*  
A study of analytical and design techniques for use in the analysis and synthesis of basic mechanisms such as linkages, cams, gears, mechanical trains, etc. Prereq., C.E. 121, or with C.E. 121.
213. METAL PROCESSING (2)  
*Black*  
Theory of machining and the mechanics of metal cutting; friction, wear, and lubrication in machining. Production processes. Prereq., I.A. 17 and/or with C.E. 120.
221. THERMODYNAMICS I (3)  
*Beale*  
Energy, heat and work, reversibility, availability, first and second laws, entropy, real fluids and perfect gases. Prereq., Math. 102, Phys. 113.
222. INSTRUMENTS LABORATORY (1)  
*Staff*  
An introductory laboratory course on physical measurements. Instrument theory and error in fluid flow, weight, rotative speed, density, viscosity, area and temperature measurements. Prereq., 221 or with 221.

**223. THERMODYNAMICS II (3)***Hicks*

Thermodynamic relations for perfect and real gases, introduction to compressible fluid flow, mixtures of gases, and combustion calculations. Prereq., 221.

**224. THERMODYNAMICS LABORATORY (1)***Staff*

An intermediate laboratory course involving fluid flow, combustion calorimeters, Orsat analyzers, kinetic theory, proximate analysis, and refrigeration. Prereq., 223 or with 223.

**227. STEAM POWER PLANTS (3)***Lausche*

Fuels, principles of combustion, stationary boilers, grates, stokers, furnaces, coal pulverizers, economizers, pre-heaters, superheaters, stacks, forced and induced draft, boiler-feed pumps, steam engines and turbines, and condensers. Prereq., 221, Math. 102. (1st sem. yearly.)

**229. HEAT-POWER LABORATORY (2)***Hicks*

A senior laboratory course involving more complex experiments on turbines, engines, steam generators, heat-transfer equipment, rotating machinery, air compressors, and internal-combustion engines. Prereq., 224, or permission.

**302. DYNAMICS OF MACHINERY (3)***Sweeney*

Analytical and graphical studies of velocities and accelerations, and of static and inertia forces in machinery; engine force analysis and balancing of machinery. Prereq., 201 and C.E. 121. (2nd sem., yearly.)

**303. MACHINE DESIGN I (3)***Black*

Application of mechanics, mechanism, materials, and mechanical processes to the design and selection of machine members and units of power transmission. Prereq., 201, 213, Ch.E., 211. C.E. 222.

**304. MACHINE DESIGN II (3)***Sweeney*

Application of mechanics, mechanism, materials, and mechanical processes to the design of complete machines and sub-assemblies. Emphasis is on creative design. Prereq., 303, or with 303.

**314. HEAT TRANSFER (3)***Hicks*

Basic concepts of conduction, convection, and radiation; steady and transient conditions; film coefficients; dimensional analysis, and heat exchanger design. Prereq., 221. (1st semester, yearly.)

**323. THERMODYNAMICS ANALYSIS (3)***Hicks*

An analytical study of gas and vapor power cycles including reheat and/or regeneration. Fluid flow

in rotating machines. Discussion of effectiveness and availability. Various refrigeration cycles. Prereq., 221. (2nd semester, yearly.)

**324. GAS DYNAMICS (3)***Beale*

One dimensional flow of ideal gases, isentropic flow, shocks, heat transfer and friction. Application to propulsion systems. Prereq., 323.

**360. ENGINEERING ECONOMY (3)***Williams*

The economic analysis of engineering decisions. Includes time value of money, interest formulae, decisions under certainty, risk and uncertainty. Prereq., Math. 215, Ch.E. 305 or Math. 207 or Math. 331.

**370. INDUSTRIAL PLANT DESIGN (3)***Staff*

Semester report covering complete design of an industrial plant for manufacturing a specific product. Includes market survey, manufacturing planning, plant layout, organization and financial analysis. Prereq., Mgt. 321 and/or Mgt. 302.

**371. MODELS IN OPERATION RESEARCH (3)***Williams*

A study of the basic mathematical models commonly used in operations research with particular emphasis on their application and structure. Includes: game theory, inventory analyses, mathematical programming, queuing theory, replacement analyses, and sequencing. Prereq., Math. 215, Ch.Eng. 305 or Math. 207, or permission.

**380. COLLOQUIUM (1)***Staff*

A series of lectures, mainly by speakers outside of the engineering field, on cultural and professional subjects, with discussion moderated by the speaker. Prereq., senior standing. (2nd sem., yearly.)

**384, 385. PROBLEMS IN THERMAL MACHINERY (4, 4)***Beale*

Current problems in thermal energy conversion: internal-combustion engines, refrigeration, thermo-electric devices, gas turbines, rockets. Emphasis on individual reading and research. Prereq., permission.

**388. ENGINEERING & TECHNOLOGICAL DEVELOPMENT (3)***Sweeney*

A study of the origin and evolution of engineering as related to technological progress of our society. Attention is also given certain social, economic, and political aspects as they influence the rate of technical development. Prereq., senior standing, permission.

**390. SPECIAL INVESTIGATIONS (1 to 3)***Staff*

Prereq., permission.

**392. ADVANCED MACHINE DESIGN (3)***Staff*

Advanced problems in the design and analysis of machine members including consideration of stress propagation; stress analysis; fatigue and creep; residual stresses, Castiglano's theorem; and graphical analysis. Prereq., 303, permission.

**393. LUBRICATION AND FRICTION (3)***Sweeney*

Derivation of Reynold's equation and its application to bearings and gear teeth; load capacity and thermal equilibrium. Boundary lubrication, lubricant composition, surface finish, bearing materials and bearing performances. Prereq., permission. (1st sem., yearly.)

**394. MECHANICAL VIBRATIONS (3)***Adams*

The characteristic phenomena of mechanical vibrations encountered in machines and structures and their quantitative investigation. Simple-harmonic motion; free, transient, and forced vibration; application of phase-plane methods; damping effects; electrical analogies and mobility; Laplace transforms, principles of isolation of vibration; systems of several degrees of freedom; analog computation. 2 lec., 2 lab. Prereq., C.E. 121, Math. 215.

**395. ADVANCED THERMODYNAMICS (3)***Beale*

Thermodynamic properties and principles as explained by the nature of atoms and molecules, statistical mechanics and quantum theory. Equilibrium, free energy and irreversible processes and their application to engineering. Prereq., permission.

**410. ADVANCED VIBRATION ANALYSIS (3)***Adams*

A study of the theory of vibrating systems and of the applications of this theory to mechanical and structural design. Lumped parameter systems (of two degrees-of-freedom and greater), continuous systems such as beams and plates, earthquake and shock analysis.

**412. ADVANCED HEAT TRANSFER (3)***Olson*

An introduction to advanced analysis in conduction and convection heat transfer; hydrodynamic and thermal boundary layers in forced and free convection. Prereq., 314, C.E. 324, or permission.

**481. RESEARCH IN MECHANICAL ENGINEERING (1 to 4)***Staff*

Prereq., permission.

**495. THESIS (As recommended by dept.)***Staff*

Prereq., permission.

**ENGLISH****English Language  
and Literature  
Linguistics**

*Distinguished Professors Kendall, Summers  
Professors McGuffey (Visiting Professor), Culbert,*

*King, Stone, Thayer (Visiting Professor),  
E. Thompson, Whan (chairman)*

*Associate Professors Holmes, McDonnell,  
Purdum, Swardson, Wells*

*Assistant Professors Bottorff, Brown, Butterworth,  
Cronin, Elkins, Fieker, Fitch, Hand, Hartman,  
Heidtmann, Jones, Katranides, Knecht, Knies,  
Landon, Marks, May, Mitchell, Pickard, Roe,  
Schneider, Schulte, Sears, Sinclair, Stanton,  
Startzman, J. Thompson*

*Instructors Allen, Baird, Craddock, Johansson,*

*Kiser, Quan, L. Wilson, Wooley, Zettler*

*Lecturers Hemley, Keyes, Matthews, Rogers,  
Schmidt, Tevis*

The major requirement for the A.B. degree in English consists of a minimum of 30 hours beyond English 3 and 4, distributed as follows:

- a) 6 hours of 100 courses: English 101 and 102 or 111. Students seeking secondary school certification must take both 101 and 102, and 111 or 357 or 358.
- b) 9 hours of 200 literature courses, including at least 3 hours of Shakespeare. (English 264, 293 and 290 may not be counted toward the major.)
- c) 15 hours of 300 courses so chosen that at least three periods are represented: 3 of these 15 hours must be taken in English 311 or 314 (students seeking secondary school certification must take both 311 and 314). The group distribution is the responsibility of the major adviser.

**CREATIVE WRITING PROGRAM:** Students wishing to major in Creative Writing will take a maximum of 12 hours of creative writing *in addition to* the regular requirements for the English major. At the discretion of the director, a student may substitute 3 hours of 293, Advanced Composition, for 3 hours of Creative Writing.

**DEPARTMENTAL HONORS PROGRAM:**

Honors work begins on the initiative of the student, who, after notification of eligibility by the university (but before his senior year) seeks out a faculty member with whom he wants to work. If the faculty member agrees to become the student's adviser, he notifies the chairman of the undergraduate committee of the English Department and requests the dean of the student's college to appoint him the student's major adviser. The student then registers for English 300, *Honors*, and proceeds to a study program prescribed by his adviser and leading to the completion of a writing project in the second semester of his senior year. On completion of the writing project, the chairman of the undergraduate committee of the English Department appoints one other member of the department to review the project and to act as examiner. An oral examination completes this program. If a student drops from the program, or receives an "unsatisfactory" in either the project or the examination, he will receive the grades and

credits for individual semesters but will not receive "honors distinction" on his diploma. Six hours of honors course credit may be substituted for any 300-level major course requirement.

## ENGLISH LANGUAGE AND LITERATURE

### 1. REMEDIAL ENGLISH (3)

*J. Thompson, staff*  
The fundamentals of composition. Credits and points not counted toward a degree. (Summer only, as required.)

### 2. ENGLISH COMPOSITION FOR FOREIGN STUDENTS (3)

*Staff*  
Special emphasis is placed on developing a practical knowledge of the structure of English, improving the student's reading speed and comprehension, correcting pronunciation difficulties, and familiarizing the foreign student with American English idiom. Students continue to attend English 2 until they achieve the level of English proficiency required for admissions to English 4. The grade of "Pending" will be given until such proficiency is achieved. (Each sem.)

### 3-4. ENGLISH COMPOSITION (3)

*Johansson, staff*  
Writing principles and practice. In English 3, a student analyzes expository prose and the English language; in English 4, literature. Each student writes at least 7,500 words under close supervision in English 3 and 5000-6500 words in English 4. Transfer students who have not completed six hours of composition will register for English 3 or English 7. (Each sem.)

### 7. FRESHMAN RHETORIC-LITERATURE (3)

*Johansson, staff*  
Writing principles and practice for students in the upper 30% of the freshman class. Placement in English 7 will be determined by entrance examinations. Students will examine writing techniques used in essays, poetry, fiction and drama. Each student will submit at least 7500 words for close grading during the semester. This course satisfies the freshman composition requirement. (Each sem.)

### 101. ENGLISH LITERATURE THROUGH MILTON (3)

*Knies, staff*  
Middle ages through the seventeenth century. Emphasis on Chaucer, Shakespeare, and Milton. Prereq., 4 or 7. (Each sem.)

### 102. ENGLISH LITERATURE SINCE MILTON (3)

*Knies, staff*  
Eighteenth century to the present. Prereq., 4 or 7. (Each sem.)

### III. CHIEF AMERICAN WRITERS (3)

*Swardson, staff*  
Emerson, Thoreau, Melville, Hawthorne, Poe, Whitman, and others. Prereq., 4 or 7. (Each sem.)

### 112. CHIEF AMERICAN WRITERS (3)

*Swardson, staff*  
Twain, James, Crane, Dickinson, Eliot, Faulkner, Frost, Hemingway, and others. Prereq., 4 or 7. (Each sem.)

### 223. SHAKESPEARE (3)

*Kendall*  
The comedies and historical plays. Prereq., 3 hrs. beyond Eng. 4 or 7. (1st sem., yearly.)

### 224. SHAKESPEARE (3)

*Kendall*  
The principal tragedies. Prereq., 3 hrs. beyond Eng. 4 or 7. (2nd sem., yearly.)

### 225. INTERPRETATION OF DRAMA (3)

*Schulte, staff*  
Analysis of dramatic forms. Prereq., 3 hrs. beyond Eng. 4 or 7. (Each sem.)

### 226. EUROPEAN BACKGROUNDS (3)

*Staff*  
European movements and works that have influenced English and American literature. Prereq., 3 hrs. beyond Eng. 4 or 7. (Each sem.)

### 227. INTERPRETATION OF FICTION (3)

*Staff*  
Study of the forms and techniques of the art of fiction. Prereq., 3 hrs. beyond Eng. 4 or 7. (Each sem.)

### 228. INTERPRETATION OF POETRY (3)

*Staff*  
Intensive reading of selected poems from all periods of English and American literature. Prereq., 3 hrs. beyond Eng. 4 or 7. (Each sem.)

### 264. THE TEACHING OF HIGH SCHOOL ENGLISH (3)

*Brown*  
The content and methods of the presentation of grammar, composition and literature. Prereq., 12 hrs. beyond 4, junior standing, or 7. (Each sem.)

### 284. MYTHOLOGY IN ENGLISH AND AMERICAN LITERATURE (3)

*Butterworth*  
Classical and other mythologies and their effect upon English and American writers. Prereq., 3 hrs. beyond Eng. 4 or 7. (1st sem., yearly.)

### 285. BIBLE AS LITERATURE (3)

*Whan*  
Selected prose and poetry of the Old and New Testaments. Prereq., 3 hrs. beyond Eng. 4 or 7. (2nd sem., yearly.)

**290. CREATIVE WRITING (3-3)***Keyes, Matthews, Schmidt, Tevis*

The fundamentals of fiction writing. Maximum credit, 6 hrs. Prereq., 4 or 7 and permission of the English dept. (Each sem.)

**293. ADVANCED COMPOSITION (3)***Marks, staff*

Study of past and present forms of the essay; practice in a variety of non-fiction prose techniques; stress on the development of a mature prose style. Prereq., 4, junior standing. (Each sem.)

**303. MEDIEVAL ENGLISH LITERATURE (3)***Butterworth*

Langland, Malory, the *Gawain* poet, and others (excluding Chaucer); relevant Continental literature. Prereq., 12 hrs. beyond 4 or 7. (1st sem., 1964-65.)

**311. HISTORY OF THE ENGLISH LANGUAGE (3)***Roe, staff*

Growth of the language; vocabulary and grammar of the various periods; selections from Early English. Prereq., 12 hrs. beyond 4 or 7. (1st sem., yearly.)

**312. CHAUCER (3)***Heidtmann*

Early works: *The Canterbury Tales*; *Troilus and Criseyde*. Prereq., 12 hrs. beyond 4 or 7; 311 recommended. (2nd sem., yearly.)

**314. STRUCTURE OF AMERICAN ENGLISH (3)***Roe, staff*

An introductory course in the sound structure and grammatical structure of American English. Prereq., 12 hrs. beyond 4 or 7. (2nd sem., yearly.)

**315-316.**

See description under Linguistics.

**321. SIXTEENTH CENTURY LITERATURE (3)***Fieler*

The English Renaissance and Humanism. Prereq., 12 hrs. beyond 4 or 7. (1st sem., 1965-66.)

**322. ELIZABETHAN DRAMA (3)***Kendall*

The English drama from 1550 to 1642; predecessors, contemporaries, and immediate followers of Shakespeare. Prereq., 12 hrs. beyond 4 or 7. (1st sem., yearly.)

**331. SEVENTEENTH CENTURY LITERATURE (3)***Whan*

Donne, Bacon, Herrick, Browne, and others. Prereq., 12 hrs. beyond 4 or 7. (1st sem., yearly.)

**332. MILTON (3)***Swardson*

Prose, minor poetry, *Paradise Lost*, *Paradise Regained*, and *Samson Agonistes*. Prereq., 12 hrs. beyond 4 or 7. (2nd sem., yearly.)

**333. RESTORATION (3)***Purdum*

A study of typical works and main figures with emphasis on Dryden. Prereq., 12 hrs. beyond 4 or 7. (2nd sem., 1965-66.)

**341. EIGHTEENTH CENTURY LITERATURE (3)***Jones*

Pope, Swift, Gay, Defoe, Addison, Steele; the novel; the drama. Prereq., 12 hrs. beyond 4 or 7. (1st sem., yearly.)

**342. EIGHTEENTH CENTURY LITERATURE (3)***Sinclair*

Boswell, Johnson, Goldsmith, Sheridan, Gray, Cowper, and others. Prereq., 12 hrs. beyond 4 or 7. (2nd sem., yearly.)

**344. EIGHTEENTH CENTURY NOVEL (3)***Jones*

Background and predecessors; Defoe, Richardson, Fielding, Smollett, Sterne, and others; the Gothic novel. Prereq., 12 hrs. beyond 4 or 7. (2nd sem.)

**345. NINETEENTH CENTURY ENGLISH NOVEL (3)***Knies*

Historical survey; critical analysis of novels by Scott, Austen, Thackeray, Dickens, Trollope, the Brontes, Eliot, Meredith, Hardy, Conrad, and others. Prereq., 12 hrs. beyond 4 or 7. (1st sem., yearly.)

**351. PROSE AND POETRY OF THE ROMANTIC PERIOD (3)***J. Thompson*

The philosophical background; Wordsworth, Coleridge, Byron, Shelley, Keats. Prereq., 12 hrs. beyond 4 or 7. (1st sem., yearly.)

**352. VICTORIAN POETRY AND PROSE (3)***King*

Tennyson, Browning, Arnold, Carlyle, Newman, Ruskin and others. Prereq., 12 hrs. beyond 4 or 7. (2nd sem., yearly.)

**357. AMERICAN MASTERS OF FICTION (3)***Stone*

Hawthorne, Melville, James and Twain. Prereq., 12 hrs. beyond 4 or 7. (1st sem., yearly.)

**358. AMERICAN MASTERS OF POETRY (3)***Holmes*

Poe, Whitman, Dickinson, Frost and Eliot. Prereq., 12 hrs. beyond 4 or 7. (2nd sem., yearly.)

**361. TWENTIETH CENTURY FICTION (3)***Marks*

Joyce, Faulkner, Lawrence, Hemingway, and others. Prereq., 12 hrs. beyond 4 or 7. (2nd sem., yearly.)

**362. TWENTIETH CENTURY DRAMA (3)***E. Thompson*

Shaw, O'Neill, Eliot, and others. Prereq., 12 hrs. beyond 4 or 7. (1st sem., yearly.)

**368. TWENTIETH CENTURY POETRY (3)** *Summers*  
 Eliot, Auden, Frost, Thomas, and others. Prereq., 12 hrs. beyond 4. (1st sem., yearly.)

**369, 370. COLLOQUIUM 3, 3)** *Staff*  
 Specific interdisciplinary problems to be assigned each semester. Prereq., 12 hrs. beyond 4 or 7, senior or grad. standing. (Each sem.)

**371. HISTORY OF LITERARY CRITICISM (3)** *E. Thompson*  
 Aristotle to the present. Prereq., 12 hrs. beyond 4. (2nd sem., yearly.)

**390. STUDIES IN ENGLISH (1 to 3)** *Staff*  
 Directed individual reading and research. (See also the Honors Program.) Maximum credit, 6 hrs. Prereq., 12 hrs. beyond 4, permission of the dept. chairman. (Each sem.)

**393-394. CREATIVE WRITING SEMINAR (3-3)** *Keyes, Matthews, Schmidt, Tevis*  
 Criticism of manuscripts and discussion of problems of form. Prereq., 6 hrs. of creative writing, permission of the instructor. Admission only in the first semester, except for unusual reasons. (Yearly.)

**402. ENGLISH LANGUAGE I (3)** *Roe*  
 A historical survey of the sounds, inflections, syntax and vocabulary of Old and Middle English, with particular emphasis upon the language of Chaucer. Prereq., 405 and graduate standing. (2nd sem., yearly.)

**403. ENGLISH LANGUAGE II (3)** *Roe*  
 A historical survey of the sounds, inflections, syntax, and vocabulary of English from 1500 to the present, with particular emphasis upon the language of Shakespeare. Special development of English language in the United States. Prereq., 402 or equivalent. (1st sem., yearly.)

**405. INTRODUCTION TO OLD ENGLISH (3)** *Staff*  
 Studies in the language structure. Translation of selected prose. Prereq., graduate standing. (1st sem., yearly.)

**406. OLD ENGLISH POETRY (3)** *Staff*  
 Translation and criticism of Old English Verse. Prereq., English 405. (2nd semester, yearly.)

**412. CHAUCER (3)** *Heidtmann*  
 Intensive study of Chaucer and his times. Problems in Chaucerian scholarship. (1st sem., yearly.)

**424. SHAKESPEARE (3)** *McDonnell*  
 Intensive study in specific critical and historical problems. (2nd sem., yearly.)

**432. MILTON (3)** *Swardson*  
 Critical and historical studies in Milton. (1st sem., yearly.)

**450-451. PROSEMINAR IN LITERATURE (4-4)** *Staff*  
 The proseminar is a two semester study, research, and writing program; the first semester will consist of a comprehensive reading into the subject matter area of the proseminal and investigation into the nature of literary problems relevant to this area and the selection of those problems appropriate to graduate writing. The second semester of the proseminal will be largely concerned with the writing of papers comparable in scope to the master thesis or scholarly papers. (Sections as required, each semester.)

**469. STUDIES IN LITERATURE (3)**  
 Advanced study of a period or of some aspect of a period (a movement, a genre, an author, etc.) of English or American Literature. These subject matter courses are designed to supplement undergraduate training and to provide intensified training in areas of concentration. The following will be scheduled regularly:

- a. MEDEIVAL—Spring (3) *Butterworth, Roe, Heidtmann*
- b. RENAISSANCE—Fall (3) *Fieler, McDonnell, Whan, Swardson*
- c. NEO-CLASSIC—Fall (3) *Jones, Purdum*
- d. ROMANTIC AND VICTORIAN—Fall, Spring (3) *King, Rogers, J. Thompson, Knies*
- e. TWENTIETH CENTURY—Fall, Spring (3) *Marks, Summers, E. Thompson, Wells*
- f. AMERICAN—Fall, Spring (3) *Bottorf, Holmes, Stone, Wells*
- g. CRITICISM—Fall (3) *E. Thompson*

**473. STYLISTICS (3)** *Summers*  
 Problems in the description and analysis of prose style. Prosodic theory. Literature and its writers. (2nd sem., yearly.)

**475. THEORY OF LITERATURE (3)** *E. Thompson*  
 Investigations into the nature of literature and the problems of practical literary criticism. (1st sem., yearly.)

**481-482. PROBLEMS IN RESEARCH (3-3)** *Kendall*  
 Theory and practice of literary and historical research. (2nd sem., yearly.)

**491-492. MASTERS SEMINAR (1-1)** *Staff*  
 Problems in the teaching of college English.  
 (Yearly.)

**495. THESIS (As recommended by dept.)** *Staff*  
 The masters thesis is generally elected for three or four hours credit.

**570. SEMINAR IN LITERATURE** *Staff*  
 Study of a period of English or American literature with emphasis on scholarship, bibliography, and research methodology. To include preparation and class presentation of long research-critical papers. Each student will take a seminar in the period in which he plans to write his dissertation. The following will be regularly scheduled:

- a. MEDIEVAL (3)
- b. RENAISSANCE (3)
- c. NEO-CLASSIC (3)
- d. ROMANTIC AND VICTORIAN (3)
- e. TWENTIETH CENTURY (3)
- f. AMERICAN (3)

**595. DISSERTATION (As recommended by dept.)** *Staff*

## LINGUISTICS

**315. INTRODUCTION TO LINGUISTICS (3)** *Staff*  
 The history and development of linguistics and the basic concepts used in linguistic analyses. To include phonetics, phonemics, Morpho-Syntax, Transcribing, and Orthographic Analyses, and a brief consideration of comparative linguistics, descriptive linguistics, psycho- and socio-linguistics and computational linguistics.

**316. GEOLINGUISTICS (3)** *Katranides*  
 Survey of languages of the world. To include language typology based on genetic relations, geographical distribution, and structural features.

**400. PROCEDURES IN TEACHING ENGLISH AS A FOREIGN LANGUAGE (2)** *Landon, Staff*  
 Procedures in teaching English as a foreign language with particular emphasis on the Aural-Oral, New-Key, and Intensive Methods.

**401. MATERIALS IN TEACHING OF ENGLISH AS A FOREIGN LANGUAGE (2)** *Staff*  
 Intended to acquaint the student with the materials recently published in this field, emphasizing criteria for selecting the materials depending upon native language and proficiency in English.

**408. PROBLEMS IN TEACHING OF ENGLISH AS A FOREIGN LANGUAGE (2)** *Landon*  
 Consideration of various problems encountered in teaching English as a foreign language.

**409. CONTRASTIVE ANALYSES OF ENGLISH AND MAJOR FOREIGN LANGUAGES (3)** *Katranides*  
 Methods and techniques of doing a contrastive analysis to locate "trouble spots" with the speaker of any given foreign language.

**410. LABORATORY COURSE IN TEACHING OF ENGLISH AS A FOREIGN LANGUAGE (3)** *Staff*  
 Practical experience in T.E.F.L. Students will be assigned to teach T.E.F.L. to small groups of Ohio University foreign students.

**414. MODERN ENGLISH DIALECTS (3)** *Hartman, Roe*  
 History, theory, and techniques of dialect geography. Special emphasis on the regional and social dialects of contemporary American English. Brief survey of the principal dialects of British English, including Received Standard, Cockney, and Scottish.

**425. PHONETICS (3)** *Katranides*  
 Emphasis on articulatory phonetics including descriptions of the sounds of speech in terms of the parts of the human vocal apparatus which produce them. Students will learn to recognize and describe the sounds made in various languages of the world. To include a brief introduction to the spectrographic analysis of speech sounds.

**426. PHONEMICS (3)** *Hartman*  
 The theoretical basis for the concept of the phoneme and discovery procedures for detecting and systematically organizing the minimal signal-carrying units of various languages.

**427. GRAMMAR ANALYSIS (Morphology-Syntax) (4)** *Katranides*  
 Methods of analyses and structural description of the two basic divisions of grammar: The first half concerns morphemic analyses of languages; the second half, methods of arriving at systematic descriptions of the syntactic arrangements of morphemes as they occur in various languages.

**428. TRANSCRIBING AND LINGUISTIC FIELD WORK (2)** *Staff*  
 How to collect and organize raw linguistic data taken from native informants of various languages. To include practice in transcription in phonetics and phonemics.

**429. HISTORICAL LINGUISTICS (2)***Flum*

Introduction to Indo-European historical linguistics. To include theory and practice of genetic comparison and reconstruction, internal history, dialect geography, and linguistic borrowing.

**430. COMPARATIVE LINGUISTICS (2)***Flum*

Application of the comparative method to particular language families and sub-families within the Indo-European group.

**431. RECENT TRENDS IN LINGUISTICS (3)***Klare*

Survey in the relationship of linguistics to the allied fields of mathematics, acoustics, psychology and sociology.

**433-434. DESCRIPTIVE LINGUISTICS (3-3)***Staff*

Intensive courses in languages such as Afrikaans, Bulgarian, Serbo-Croatian, Cambodian, Wes-Cos, and Modern Greek.

**435. LINGUISTICS SEMINAR (1-2)***Staff*

Papers of special linguistic interest will be presented by students, faculty, and special guest speakers. A student who presents a paper will receive two credit hours. Students who prepare a paper on one of the topics discussed at the seminar and present it to the course instructor will receive one hour credit. Open to public.

**495. THESIS (as recommended by dept.)***Staff*

The masters thesis is generally elected for three or four hours credit.

**500. CURRENT PROBLEMS IN LINGUISTICS (2)***Landon, Staff*

Intended to acquaint advanced graduate students with the recent problems in various areas of linguistic analyses.

**501. PROBLEMS IN MORPHOPHONEMICS (2)***Katranides*

The concepts of morphophonemics. Emphasizing problem solving in this area.

**502. SOCIO-LINGUISTICS (3)***Landon*

Language change, language variation, language interference, and possible relation between language and thought.

**503. THE HISTORY AND DEVELOPMENT OF LINGUISTICS (2)***Staff*

The rise and development of linguistics emphasizing the period beginning in the late nineteenth century up to the present. Consideration to

particular linguists, their contributions, and the reasoning behind their approaches to certain solutions.

**504. READINGS IN LINGUISTICS (1-3)***Staff*

Special readings in areas of linguistics other than those offered in the regular curriculum. Amount of credit at the discretion of the instructor.

**505. COMPUTATIONAL LINGUISTICS (3)***Frink*

The application and value of computer science in relation to linguistics. How to program language material for various machines. The various uses of computers in regards to language materials.

**595. DISSERTATION (as recommended by dept.)***Staff***FINANCE***Professor Blythe (chairman)**Assistant Professor Dudley**Instructor Martin***110. MONEY AND BANKING (3)***Staff*

Money and credit with emphasis on credit expansion and contraction by the Federal Reserve System and commercial banks. Study of monetary policies of the Federal Reserve and Treasury. Commercial bank lending and investing. Prereq., Ec. 12 or 102 or permission.

**201. PERSONAL FINANCE (2)***Staff*

Considered are such subjects as installment purchases, savings accounts, savings bonds, borrowing, life insurance, annuities, buying a home, investments in securities, investment companies, and taxes. Prereq., open only to juniors and seniors and not working toward the Bachelor of Business Administration degree.

**221. MANAGERIAL FINANCE (4)***Staff*

Role of financial management in the business enterprise; financial analysis; planning the need for short-term and long-term funds; planning for profits; capital budgeting; internal management of working capital and income; raising funds to finance the growth of business enterprises. Prereq., Acct. 102.

**305. INVESTMENT PRINCIPLES (3)***Staff*

Information for individual investors which can be used in the management of personal investment problems. Among the topics to be considered are investment risks and how they can be handled, yields, analysis of financial statements, and securities markets and their behavior. Prereq., 221.

**306. SECURITY ANALYSIS (3)***Staff*

Problems of selecting securities for various investment purposes. Industry structure, volume-price-cost relationships, management, financial position, terms of the security contract, and market price behavior are studied to determine the attractiveness of a security. Portfolio construction is considered. Prereq., 305.

**314. RISK AND INSURANCE (3)***Staff*

Study of the social importance of risk and its place in our personal, business and national life, including principles and methods of handling risk. Special interest in the technique of insurance. Prereq., Ec. 12 or 102 and Mgt. 100.

**315. PROPERTY AND CASUALTY INSURANCE (3)***Staff*

Analysis of the principal types of property and casualty insurance policies with respect to protection afforded the policyholder, his obligations, and cost of protection. Policies studied include fire and extended coverage, allied lines, business interruption, inland marine, automobile, general liability, theft, and bonds. The subjects of risk, insurance law, and multiple-peril policies are also covered. Prereq., 221.

**316. LIFE INSURANCE (2 or 3 as scheduled)***Staff*

The fundamental economics of life insurance. The principles and practices of life insurance including types of contracts, group and industrial insurance, and annuities. Prereq., Ec. 12 or 102, or permission.

**343. MONEY AND CAPITAL MARKETS (3)***Blythe*

Study of the flow of funds, interest-price movements, and the institutions of the money and capital markets, including trading in federal funds, open-market paper, mortgage loan market, corporate securities markets, and the markets for government securities and municipal obligations. Prereq., 221.

**351. MONETARY THEORY (3)***Dudley*

A study of the theories advanced to explain the relationship between money and its value, the relationship between money and the level of economic activity, allocations of funds among alternate uses, and interest and interest rates. Prereq., 221 or 12 hrs. economics.

**352. INTERNATIONAL FINANCE (3)***Dudley*

An analysis of the problems in international finance; structure and development of the foreign exchange market. Foreign central banking and current developments in international financial cooperation. Prereq., 221.

**356. PROBLEMS IN CORPORATION FINANCE***Staff*

This course is developed through the use of cases which deal with short-term financing, long-term financing, reserve and dividend policies, expansion and combination, refunding, recapitalization, and reorganization. Prereq., 221.

**381. RESEARCH IN FINANCE (1 to 8)***Staff*

Prereq., 9 hrs. Ec. 12 or 102, permission.

**391. SEMINAR IN FINANCE (2 to 4)***Staff*

Maximum credit in course, 10 hrs. Prereq., 9 hrs., Ec. 12 or 102, permission.

**401-402. FINANCIAL MANAGEMENT (3-3)***Blythe*

The finance function of business as viewed by the executive responsible for procuring and utilizing funds. Short-term financing is covered in 401; long-term financing is covered in 402. Case method. Prereq., 6 hrs. acct.

**491. SEMINAR IN FINANCE (2 to 4)***Staff*

Maximum credit in course, 8 hrs. Prereq., 402.

**495. THESIS (as recommended by dept.)***Staff*

Prereq., permission.

Additional course: Ec. 315—Public Finance.

**FINE ARTS**

*Professors Ahrendt, Boase, Brandes, Clark, Kanter, Seigfried, Staats, Walker*

*Associate Professors Hall, Jennings, Lane, Trisolini (chairman), H. White*

*Assistant Professors Conover, Hahne, Kortlander, Suess, Tomko, Wortman*

*Instructor Leedy*

General courses in the history and appreciation of the fine arts are open to all students who wish to broaden their knowledge of the field.

**17-18. INTRODUCTION TO THE FINE ARTS (3-3)**

*Trisolini, White, Wortman, Tomko*

Analysis of the form, media, and content of the major arts, stressing interrelationship of architecture, the dance, dramatic art, music, literature, and painting through recognition of common art factors. Prereq., open to freshmen only.

**117-118. INTRODUCTION TO THE FINE ARTS (3-3)**

*Trisolini, White, Wortman, Tomko*

Same description as 17-18. Prereq., not open to freshmen.

**121-122. HISTORY OF PAINTING AND SCULPTURE (3-3)**

*Leedy*

123-124. HISTORY OF MUSIC (3-3)	Suess	359. STYLES OF ACTING (3)	Conover
Not open to students who have received credit in Mus. 5. Prereq., 18 or permission.		Prereq., Dram. A. 304, Speech 34, Eng. 223.	
175-176. HISTORY OF ARCHITECTURE (3-3)	White	371. LATIN AMERICAN ART (3)	Staff
		Prereq., 122, 176, or permission.	
179-180. HISTORY OF THE VISUAL THEATRE (3-3)	Hahne, Lane	375. NINETEENTH CENTURY ARCHITECTURE (3)	Tomko
203-204. HISTORY OF ORATORY (3-3)	Staats	376. TWENTIETH CENTURY ARCHITECTURE (3)	Tomko
309. CLASSICAL RHETORICAL THEORY (3)	Staats	378. PHILOSOPHY OF ARCHITECTURE (2)	Staff
Prereq., 204 or permission.		Prereq., 377; open to graduate students in Fine Arts by permission.	
321. HISTORY OF DRAMATIC CRITICISM (3)	Conover, Walker	381. RESEARCH (1 to 5)	Staff
Prereq., 12 hrs. Dram. A. or equivalent advanced courses and permission.		Prereq., permission.	
322. DRAMATIC COMPOSITION (3)	Walker	382. CUBISM, EXPRESSIONISM, AND LATER DEVELOPMENT (3)	Kortlander, Leach
Prereq., 6 hrs. Dram. A. and 12 hrs. Eng. and/or journ.		Prereq., 18 or permission.	
324. CONTEMPORARY THEATRE (3)	Lane	385. CONTEMPORARY PUBLIC ADDRESS (3)	Brandes
Prereq., 179 and 12 hrs. Dram. A. or the equivalent.		Prereq., permission.	
337. THE LITERATURE OF VOCAL MUSIC (2)	Wortman	390. SEMINAR IN ART HISTORY (2 or 3)	Staff
Prereq., 124.		Prereq., permission.	
338. THE LITERATURE OF ORCHESTRAL MUSIC (2)	Suess	403. THE RENAISSANCE (3)	Kortlander, Leach
Prereq., 124.		Prereq., 18 or permission.	
339. THE EVOLUTION OF THE OPERA (2)	Wortman	404. MANNERISM AND THE BAROQUE (3)	Kortlander, Leach
Prereq., 124.		Prereq., 18 or permission.	
340. THE LITERATURE OF PIANO MUSIC (2)	Jennings	422. RENAISSANCE THEATRE (3)	Conover
Prereq., 124.		Prereq., Dram. A. majors or permission.	
344. CONTEMPORARY MUSIC (3)	Suess	423. BAROQUE THEATRE (3)	Walker
Prereq., 124, permission.		Prereq., Dram. A. majors or permission.	
353. DIRECTING PERIOD PLAYS (3)	Lane	424. NINETEENTH CENTURY THEATRE (3)	Walker
Prereq., 180, Dram. A. 351 and permission.		Prereq., Dram. A. majors or permission.	
		441. MUSIC OF THE MEDIEVAL AND RENAISSANCE PERIODS (3)	Wortman
		Prereq., 124, permission.	

**442. MUSIC OF THE BAROQUE PERIOD (3)**

Suess

Prereq., 124, permission.

**443. MUSIC OF THE CLASSIC AND ROMANTIC PERIODS (3)**

Wortman

Prereq., 124, permission.

**471. AMERICAN PUBLIC ADDRESS (3)**

Boase

Prereq., 204, Speech 112 or equivalent.

**472. BRITISH AND FRENCH PUBLIC ADDRESS (3)**

Brandes

Prereq., 309 or equivalent.

**473. RENAISSANCE RHETORICAL THEORY (3)**

Boase

Prereq., senior speech majors or permission.

**474. ARCHITECTURE TO 1600 (3)**

Tomko

Prereq., 176, or permission.

**475. GREEK, ROMAN, AND PATRISTIC PUBLIC ADDRESS (3)**

Staats

Prereq., 204, 309, Hist. 115 or 120 or equivalent.

**477. THE BAROQUE SPIRIT IN ARCHITECTURE (3)**

White

Prereq., 176.

**481. IMPRESSIONISM AND POST-IMPRESSIONISM (3)**

Kortlander, Leach

Prereq., 18 or permission.

**491. SEMINAR IN FINE ARTS (1)**

Trisolini, Staff

Prereq., permission. Maximum credit in course, 6 hrs.

**495. THESIS (As recommended by dept.)**

Staff

Prereq., permission.

**595. DISSERTATION (As recommended by dept.)**

Staff

Prereq., permission.

**FRENCH**

See Modern Languages

**GENERAL STUDIES****Social Science:**

Assistant Professor Tryon

**1-2. BIOLOGY—THE LIVING WORLD (3-3)**

Staff

Biol. 1 deals with the fundamental similarities and differences among plants and animals; their protoplasm, cells, tissues, and organs; and their physiological processes. Biol. 2 provides a survey of the principal plant and animal groups, emphasizing comparative structure, life histories, and classifications. Basic principles of heredity, evolution, and ecology are introduced.

Designed primarily for non-science majors. A maximum of 3 hrs. credit may be allowed toward a botany or zoology major, subject to the approval of the department. No credit allowed for students who have already completed Bot. 3-4 or Zool. 3-4. Not open to juniors and seniors. 2 lec., 2 lab. (Yearly.)

**3, 4. PHYSICAL SCIENCE—THE PHYSICAL WORLD (3, 3)**

Staff

A general physical science course designed for non-science majors. 3 includes an introduction to astronomy, meteorology, and topography; 4 includes chemistry and physics. Not open to juniors and seniors. 2 lec., 2 lab. (Yearly.)

**10. SOCIAL SCIENCE—CITIZENSHIP IN THE MODERN WORLD (3)**

Tryon

Focuses upon the American democratic heritage and its chief competitors, communism and fascism. Not open to juniors and seniors. Recommended, but not required in sequence. (Yearly.)

**103, 104. PHYSICAL SCIENCE—THE PHYSICAL WORLD (3, 3)**

Edwards, Shipman

A course for non-science majors designed to show the internal unity of scientific development on a broad scale through a synthesis of physical sciences. Attention will be given to the historical and philosophical aspects of the growth of man's ideas concerning the physical world. The course includes the fundamental concepts of matter and energy found in astronomy, physics, chemistry and geophysics. Not open to freshmen or sophomores nor to those who have had Phys. Sc. 3 or 4. 2 lec., 2 lab. (Yearly.)

**7, 8. HUMANITIES—GREAT BOOKS (3, 3)**

Hultgren, McDonnell, J. Thompson, Urdahl  
Guided reading and discussion of literary masterpieces, ancient and modern; consideration of man's relation to God, right and wrong, society, and environment. Open to those who are eligible for or have taken Eng. 3. Not open to juniors and seniors. (Yearly.)

**107, 108. HUMANITIES—GREAT BOOKS  
(3, 3)**

*Butterworth, Hultgren, Murphy*

Similar to Humanities 7, 8, but designed for upperclassmen. Not open to freshmen or to those who have had Hum. 7 and 8. (Yearly.)

**268. BIOLOGY—TEACHING OF BIOLOGY (2)**

*B. Allen, Vermillion*

A consideration of the purposes of high school biology, instructional materials, classroom methods, sources of laboratory equipment and supplies, and examination techniques. Prereq., 12 hrs. biological science. (Each sem., yearly.)

## GEOGRAPHY AND GEOLOGY

*Professor Sturgeon (chairman)*

*Assistant Professors, Baker, Fisher, Howard,  
Korsok, Phelps*

*Instructors Heien, Riley, Vincent, Wilhelm*

## GEOGRAPHY

The major requirement for the A.B. degree is 30 semester hours in approved departmental courses and Geol. 3-4. Geol. 111-112 and 223 are required for students specializing in physical geography.

**3. ELEMENTS OF PHYSICAL GEOGRAPHY  
(3)**

*Staff*

Study of the elements of the physical environment; earth-sun relationships, landforms, weather and climate, and soils. Not open to juniors and seniors, or students who have had Geog. 150. (Each sem.)

**4. WORLD REGIONAL GEOGRAPHY (3)**

*Staff*

Study of the world by regions wherein the physical background, land utilization, and cultural development are surveyed. Not open to juniors or seniors. (Each sem.)

**104. WORLD'S REGIONS AND PEOPLE (3)**

*Korsok*

Regional study of the world stressing population characteristics and economic development based on geographic factors. Not open to those who have had 4. (1st sem., yearly.)

**111. ELEMENTS OF METEOROLOGY (3)**

*Wilhelm*

General survey of the physical principles of weather. 2 lec., 2 lab. (1st sem., yearly.)

**112. ELEMENTS OF CLIMATOLOGY (3)**

*Wilhelm*

General survey of the physical principles of climate. 2 lec., 2 lab. Prereq., 3 or 111. (2nd sem., yearly.)

**115. ECONOMIC GEOGRAPHY (3)**

*Korsok*

Study of the world distribution of man's basic economic activities: extractive, agricultural, and manufacturing industries. (Each sem.)

**150. GEOGRAPHY AND ENVIRONMENT (3)**

*Staff*

Systematic survey of physical and cultural elements. Not open to students who have had 3. (Each sem.)

**202. GEOGRAPHY OF THE UNITED STATES  
AND CANADA (3)**

*Wilhelm*

Systematic and regional study of the U. S. and Canada: the physical environment, natural resources, agriculture, and cultural development. (Each sem.)

**215. CARTOGRAPHY (3)**

*Korsok*

Elementary principles of map projections, map drawing, and graph making. Prereq., permission. (2nd sem., yearly.)

**218. AIR PHOTO INTERPRETATION (3)**

*Vincent*

Survey of principles and techniques used in air photo interpretation as practiced by geographers, geologists, community planners, engineers, etc. Prereq., 6 hrs. in major, permission. (1st sem., yearly.)

**231. GEOGRAPHY OF OHIO (3)**

*Korsok*

Detailed regional study of the physical background and economic development. (1st sem., 1966-67.)

**232. CONSERVATION OF THE NATURAL  
RESOURCES (3)**

*Staff*

Problems in the conservation of soils, water, minerals, forests, and wild life as related to land use. The interrelations of these various factors and their educational significance are emphasized. (2nd sem., yearly.)

**301. GEOGRAPHY OF THE SOVIET UNION  
(3)**

*Korsok*

Physical, cultural, and economic geography of the Soviet Union. Prereq., 3 and 4, or 150\*. (1st sem., 1966-67.)

**305. GEOGRAPHY OF LATIN AMERICA (3)**

*Vincent*

Similar treatment as in 301. Prereq., 3 and 4, or 150\*. (1st sem., yearly.)

**308. GEOGRAPHY OF EUROPE (3)**

*Korsok*

Similar treatment as in 301. Prereq., 3 and 4, or 150\*. (1st sem., 1967-68.)

**312. GEOGRAPHY OF SOUTHERN ASIA AND ISLANDS (3)**

*Riley*

Similar treatment as in 301. Prereq., 3 and 4, or 150\*. (2nd sem., 1967-68.)

**322. GEOGRAPHY OF AFRICA (3)**

*Riley*

Similar treatment as in 301. Prereq., 3 and 4, or 150.\* (1st sem., yearly.)

**360. POLITICAL GEOGRAPHY (3)**

*Staff*

Geographic basis of national strength or weakness. Physical and cultural influence upon historical development is emphasized. Prereq., 6 hrs.\* (2nd sem., yearly.)

**370. URBAN GEOGRAPHY (3)**

*Korsok*

Study of geographic factors in urban areas stressing locational and economic factors. Prereq., 6 hrs.\* (1st sem., 1966-67.)

\* Upperclassmen and graduate students in related fields, such as history, economics, government, and sociology may take the course by permission.

**382. GEOGRAPHICAL STUDIES (1 to 4 a semester in any of the following)**

*Staff*

Supervised studies in fundamentals of geographic research. Maximum credit in any one area, 8 hrs. Prereq., 12 hrs. permission. (Each sem.)

a. CARTOGRAPHY.

*Korsok*

b. CONSERVATION OF NATURAL RESOURCES.

*Staff*

c. ECONOMIC GEOGRAPHY.

*Korsok*

d. METEOROLOGY AND CLIMATOLOGY.

*Wilhelm*

e. PHYSIOGRAPHY (See Geol. 383a).

*Staff*

f. POLITICAL GEOGRAPHY.

*Staff*

g. REGIONAL GEOGRAPHY.

*Staff*

h. URBAN GEOGRAPHY.

*Korsok*

**391, 392. SEMINAR IN GEOGRAPHY (1, 1)**

*Staff*

Attendance required of all senior major students. Maximum credit in course, 2 hrs. (Yearly.)

## GEOLOGY

Requirements for the B.S. degree and minimum preparation for a professional career in geology include at least 36 semester hours in departmental courses numbered above 100, including 111, 112,

131, 132, 223, 241, 251, 252, 282, 313, 314, and 362 and Geog. 4, 215, and 218. In addition the following extra-departmental work is required: Chem. 3, 4, and 99; Math. 14 or 15; Physics 5, 6, C.E. 10, and field camp recommended.

Minimum requirements for the A.B. degree include the above departmental courses except 282 and the following extra-departmental courses: Chem. 3, 4, and 99; Math. 14 or 15; Physics 5, 6 recommended.

**3-4. ELEMENTS OF GEOLOGY (3-3)**

*Staff*

Studies of earth features, processes, and principles and an introduction to earth history. 2 lec., 2 lab., field trips. 3 not open to students who have had 103. (Each sem.)

**102. COMMON MINERALS, ROCKS, AND FOSSILS (3)**

*Staff*

Introduction to study and identification of common minerals and rocks and common groups of fossils. 2 lec., 2 lab., field trips. Not open to students who have had 3, 4, or 103. (2nd sem., yearly.)

**103. ENGINEERING GEOLOGY (3)**

*Fisher*

Geologic principles and processes as applied to engineering materials. 2 lec., 2 lab., field trips. Not open to students who have had 3. (1st sem., yearly.)

**111-112. HISTORICAL GEOLOGY (3-3)**

*Sturgeon*

Earth history emphasizing geologic development and stratigraphy of North America. 2 lec., 2 lab., field trips. Prereq., 4. (Yearly.)

**131. MINERALOGY (3)**

*Phelps*

Elements of crystallography and introduction to descriptive mineralogy. 2 lec., 1 lab. Prereq., 4, Chem. 4, 99. (1st sem., yearly.)

**132. MINERALOGY (3)**

*Phelps*

Determinative mineralogy using physical and chemical means. 1 lec., 2 lab. Prereq., 131. (2nd sem., yearly.)

**223. PRINCIPLES OF GEOMORPHOLOGY (3)**

*Baker*

Study of the origin of land forms and geomorphic structures of the world. 2 lec., 2 lab., field trips. Prereq., 10 hrs. including 112. Upperclassmen in related fields with 6 hrs. may take the course by permission. (1st sem., yearly.)

**224. GLACIAL GEOLOGY (3)**

*Baker*

Introduction to study of glaciers and glaciation. 2 lec., 2 lab., and field trips. Prereq., 112. (2nd sem., 1967-68.)

**241. PETROLOGY (3)***Phelps*

Study of rocks emphasizing origin, composition, field classification, and identification. 2 lec., 2 lab. Prereq., 132. (1st sem., yearly.)

**251-252. INVERTEBRATE PALEONTOLOGY (3-3)***Sturgeon*

Introduction to fossils, emphasizing their morphology, classification, identification, and distribution. 2 lec., 2 lab., field trips. Prereq., 112. (Yearly.)

**282. GEOLOGIC FIELD METHODS (3)***Phelps*

Introduction to the use of hand level, Brunton pocket transit, and plane table and telescopic alidade. 1 lec., field work. Prereq., 12 hrs., C. E. 10 recommended, permission. (2nd sem., yearly.)

**313. PRINCIPLES OF SEDIMENTATION (3)***Fisher*

Processes and principles involved in study of sediments. 2 lec., 2 lab., field trips. Prereq., 112, 241. (1st sem., yearly.)

**314. PRINCIPLES OF STRATIGRAPHY (3)***Howard*

Materials and principles involved in the study of stratigraphy. 2 lec., 2 lab., field trips. Prereq., 252, 313. (2nd sem., yearly.)

**315. GEOLOGY OF OHIO (2)***Sturgeon*

Introduction to its physiography, stratigraphy, and economic geology. 2 lec., field trips. Prereq., 112. (2nd sem., 1967-68.)

**333. OPTICAL CRYSTALLOGRAPHY (2)***Heien*

Study of optical behavior of minerals by use of the petrographic microscope. 1 lec., 2 lab. Prereq., 132, Chem. 4, 99, Phys. 6. (1st sem., yearly.)

**343. IGNEOUS AND METAMORPHIC PETROGRAPHY (3)***Heien*

Classification, identification in thin sections, and paragenesis of igneous and metamorphic rocks. 1 lec., 2 lab. Prereq., 333. (1st sem., 1967-68.)

**344. SEDIMENTARY PETROGRAPHY (2)***Fisher*

Identification, description, and classification of sedimentary rocks in thin sections and grain mounts. 1 lec., 1 lab. Prereq., 313, 333. (2nd sem., 1967-68.)

**353. MICROPALAEONTOLOGY (3)***Howard*

Introduction to microscopic fossils. 2 lec., 2 lab., field trips. Prereq., 251. (1st sem., 1967-68.)

**362. STRUCTURAL GEOLOGY (3)***Baker, Phelps*

Study and interpretation of rock structures caused by earth movements. 2 lec., 2 lab., field trips. Prereq., 112, Math. 14 or 15. (2nd sem., yearly.)

**371. ECONOMIC GEOLOGY—METALS (3)***Phelps*

Principles of metallic mineral deposition and a survey of the ore deposits of the world. 2 lec., 2 lab. Prereq., 241. (1st sem., 1966-67.)

**372. ECONOMIC GEOLOGY—NON-METALS (3)***Heien*

Principles of non-metallic mineral deposition and a survey of non-metallic and mineral fuel deposits of the world. 2 lec., 2 lab., field trips. Prereq., 241. (2nd sem., 1966-67.)

**374. PRINCIPLES OF PETROLEUM GEOLOGY (3)***Fisher*

Principles of the origin, migration, and accumulation of petroleum and a survey of the major petroleum basins of the world. Prereq., 362. (2nd sem., 1967-68.)

**376. GROUND WATER GEOLOGY (3)***Baker*

Study of the principles governing the occurrence, movement, and recovery of ground water. Prereq., 314. (1st sem., 1967-68.)

**383. GEOLOGIC STUDIES (1 to 4 hrs. a semester in any of the following)***Staff*

Supervised studies in fundamentals of geologic research. Maximum credit in any one area, 8 hrs. Prereq., 12 hrs. permission.

**a. GLACIAL GEOLOGY AND PHYSIOGRAPHY.***Baker***b. GROUND WATER.***Baker***c. MINERALOGY, PETROLOGY, OR ECONOMIC GEOLOGY.***Fisher, Heien, Phelps***d. PALEONTOLOGY.***Howard, Sturgeon***e. SEDIMENTATION AND STRATIGRAPHY.***Fisher, Phelps, Sturgeon***f. STRUCTURAL GEOLOGY.***Baker, Phelps***g. TECTONICS.***Baker, Fisher, Phelps***385, 386. GEOLOGIC FIELD RECONNAISSANCE (2 or 3, 2 or 3)***Staff*

Vacation period geologic field trips to selected areas in North America with pertinent conferences,

readings, and accepted reports. Prereq., 15 hrs., permission. Maximum credit in course, 6 hrs.

**391, 392. SEMINAR IN GEOLOGY (1, 1)**

*Staff*

Attendance required of all graduate and senior major students. Maximum credit in course, 3 hrs. (Yearly.)

**415. REGIONAL STRATIGRAPHY—EASTERN NORTH AMERICA (3)**

*Howard*

Detailed stratigraphy east of the Great Plains. 2 lec., 2 lab. Prereq., 12 hrs. above 100, including 112 and 314. (1st sem., 1966-67.)

**416. REGIONAL STRATIGRAPHY—WESTERN NORTH AMERICA (3)**

*Phelps*

Similar to 415 but covering the Great Plains and Cordilleran regions. 2 lec., 2 lab. Prereq., 12 hrs. above 100, including 112 and 314. (2nd sem., 1966-67.)

**428. PHYSIOGRAPHY OF NORTH AMERICA (3)**

*Baker*

Study of surface features and related significant geologic factors of North America. Prereq., 223, 314, 362. (2nd sem., 1967-68.)

**463. GEOTECTONICS (3)**

*Staff*

Study of mountain building, continental drift, island arcs, and comparison of rock structures in different mountain types. Prereq., 314, 362. (1st sem., 1967-68.)

**493. RESEARCH IN GEOLOGY (1 to 4)**

*Staff*

Maximum credit in course, 6 hrs. Prereq., 18 hrs. permission. (Yearly.)

**495. THESIS (As recommended by dept.)**

*Staff*

Maximum credit in course, 6 hrs. Prereq., permission.

## GERMAN

See Modern Languages

## GOVERNMENT

*Professor Collins*

*Associate Professors Bald, Elsbree (Chairman), Gusteson*

*Assistant Professors Connolly, Prisley, Tucker*

*Instructor Holm*

The major requirement for the A.B. degree is 30 hours, including Govt. 1 and 2. Majors must also satisfy the following requirements: (a) a

minimum of 3 hours in political theory, and (b) at least 3 courses above 100 in each of the two areas of (1) American government and politics and (2) comparative/international politics.

**1-2. AMERICAN NATIONAL GOVERNMENT (3-3)**

*Staff*

Govt. 1 deals with the constitutional basis and development, the political processes, and the organization of American national government. Govt. 2 deals with the functions and operations of the national government. Govt. 1 is a prerequisite for Govt. 2. Not open to juniors and seniors. (Yearly.)

**101, 102. COMPARATIVE GOVERNMENT (3, 3)**

*Staff*

The government and politics of major foreign powers. 101 includes Great Britain, Germany and a non-Western state. 102 includes France and the Soviet Union. (Yearly.)

**106. CURRENT POLITICAL AND SOCIAL PROBLEMS (2)**

*Staff*

Analysis of issues pertaining to American labor, agriculture, foreign policy, and civil liberties and their governmental implications. Not open to those who have had six or more hours of government. (Yearly.)

**110. THE PROCESS OF PUBLIC POLICY FORMATION (3)**

*Tucker*

An analysis of selected executive agencies of the national government and their role in public policy formation. Particular attention is given to the role of the military, regulatory and promotional functions, and group interests. Prereq., 1 and 2.

**202. STATE GOVERNMENT AND ADMINISTRATION (3)**

*Staff*

A study of the legal and political framework, organization and operation of state government in the United States. Emphasis will be given to inter-governmental relations, political behavior processes, and the major functional activities. Prereq., 6 hrs. (Yearly.)

**203. MUNICIPAL GOVERNMENT AND ADMINISTRATION (3)**

*Tucker*

The creation and legal powers of cities; municipal elections and politics; an analysis of the administrative functions and problems of city government. Prereq., 6 hrs. (Yearly.)

**216. INTERNATIONAL RELATIONS (3)**

*Bald*

Survey of the modern nation state system and of recent trends in interstate relations; study of basic forces and conditions affecting international politics and the formulation of national foreign policies. Prereq., 6 hrs. govt. (Yearly.)

**217. CURRENT INTERNATIONAL PROBLEMS (3)**

*Bald*  
An analysis of selected contemporary issues illustrating basic problems in international relations. Prereq., 6 hrs. govt. or hist., including Govt. 216, or permission.

**241, 242. HISTORY OF POLITICAL THEORY (3, 3)**

*Connolly*

A survey of political ideas from ancient times to the present. 241 deals with ancient, medieval and the early modern periods; 242 covers modern and contemporary ideas and theorists. Prereq., 9 hrs. (Yearly.)

**301, 302. AMERICAN CONSTITUTIONAL LAW (2, 2)**

*Gusteson*

Principles underlying American constitutional government. Consideration of leading cases, with reference to interpretation of the Constitution of the United States. Prereq., 9 hrs. govt. or hist. (Yearly.)

**305. AMERICAN POLITICAL PARTIES (3)**

*Gusteson*

The origin, growth, organization, and methods of parties; the role of parties in a democracy; the influence of pressure groups. Prereq., 9 hrs. (Yearly.)

**308. LEGISLATURES AND LEGISLATIVE PROCESSES (3)**

*Gusteson*

Major problems of representative governments with respect to legislative assemblies. Analysis of structure, organization, and procedures. Interrelationship of legislatures with other forces in society. Prereq., 9 hrs. (Yearly.)

**309. LAW ENFORCEMENT (3)**

*Gusteson*

Survey and analysis of the problems of the American policing, prosecutorial, judicial, and correctional systems. Emphasis on both policy making and administration. Prereq., 9 hrs.

**323. INTERNATIONAL LAW AND ORGANIZATION (3)**

*Bald*

Analysis of the legal principles and practices governing the relations between states; study of the development, structure, and functions of international organizations, with particular emphasis on the United Nations. Prereq., Govt. 216 or 217.

**328. NEW STATES IN WORLD POLITICS (3)**

*Holm*

A detailed examination of the impact of new states on international relations. Particular attention will be given to the problems faced by and the foreign policies of new states in the world arena. Prereq., 9 hrs. govt. or hist., including Govt. 216. (Second sem., yearly.)

**331. FAR EASTERN GOVERNMENTS AND POLITICS (3)**

*Elsbree*

A study of the governmental organization, political parties, and foreign policies of China and Japan. Political developments since 1945 will be emphasized. Prereq., 9 hrs. (Yearly.)

**333. AFRICAN GOVERNMENTS AND POLITICS (3)**

*Holm*

The development and structure of modern African states with emphasis on political processes in tropical Africa. Prereq., 9 hrs. govt. or hist.

**341. AMERICAN FOREIGN POLICY (3)**

*Collins*

A consideration of the problems involved in the formulation and execution of foreign policy. Particular emphasis is given to the current problems of American policy. Prereq., 9 hrs. govt. or hist. (2nd sem., yearly.)

**343. AMERICAN POLITICAL THOUGHT (3)**

*Prisley*

The origin and development of American political ideas from colonial times to the present, focusing upon concepts of democracy, liberty, and property. Prereq., 9 hrs. govt. or hist. (Yearly.)

**344. RECENT POLITICAL THOUGHT (3)**

*Elsbree*

Political ideas of the nineteenth and twentieth centuries with the emphasis on Europe; liberalism, socialism, communism, and fascism. Prereq., 9 hrs., or 3 hrs. govt. and 6 hrs. Eur. Hist. (Yearly.)

**348. PUBLIC ADMINISTRATION (3)**

*Collins*

The theory and practice of administrative organization, and control of administrative action, with emphasis on financial and public personnel administration. Basic course for preparation for civil service examinations. Prereq., 9 hrs. (Yearly.)

**349. ADMINISTRATIVE LAW (3)**

*Collins*

Organization, functions, procedures, and administrative problems of selected national regulatory agencies; principles affecting administrative discretion; administrative power over private rights; enforcement and judicial control of administrative action. Prereq., 9 hrs.

**370. STUDIES IN GOVERNMENT (1 to 3)**

*Staff*

Intensive study of special topics in the field of government and political science. Areas of study include American government and politics, comparative government, international affairs, political parties, political theory, public administration, and public law. Maximum credit in course, 12 hrs. Prereq., 12 hrs. permission. (Each sem.)

**391. SEMINAR IN GOVERNMENT (1 to 3)**  
*Staff*  
 Maximum credit in course, 6 hrs. Prereq., 15 hrs.

**398. PROBLEMS IN GOVERNMENT (1 to 3)**  
*Staff*  
 Research or directed reading based upon the student's special interest. Maximum credit in course, 6 hrs., Prereq., 15 hrs., permission.

**401. RESEARCH IN GOVERNMENT (1 to 3)**  
*Staff*  
 Maximum credit in course, 6 hrs. Prereq., 15 hrs., permission.

**495. THESIS (As recommended by dept.)**  
*Staff*  
 Prereq., permission.

## HAUSA

See Modern Languages

## HISTORY

*Distinguished Professor Cady  
 Professors Gustavson, Gilmore, Stevens  
 Associate Professors Daniel, Lobdell (chairman),  
 C. Roberts  
 Assistant Professors Booth, Doxsee, Hamby,  
 Hahn, Herring, Lindsay, Rauschenberg,  
 Richter, Steiner, Whealey*

The major requirement for the A.B. degree consists of a minimum of 30 hours, including Hist. 1, 2, 101, 102 (unless excused as the result of taking a placement test), and a minimum of 9 hours above 300 selected from more than one field. At least one course shall be taken in a non-European, non-United States field. Hist. 1, 2, should be taken during the freshman year. Courses in economics, geography, government, and sociology are suggested as electives.

**1, 2. WESTERN CIVILIZATION IN MODERN TIMES (3, 3)**

*Staff*  
 Hist. 1 covers the period from 1450 to 1815. It stresses the Renaissance, the Protestant Reformation, the agricultural and commercial revolutions, European expansion, the French Revolution, and Napoleonic Era. Hist. 2 places emphasis on the industrial revolution, the unification of Italy and Germany, modern imperialism in Africa and Asia, the rise of Japan, the United States as a world power, World War I, the rise of totalitarian states, World War II, and efforts toward world organization. Not open to juniors and seniors. (Each sem.)

**101, 102. HISTORY OF THE UNITED STATES (3, 3)**

*Staff*  
 A survey course covering the political, diplomatic, social, and economic development of American

history. Hist. 101 covers the period to 1865; Hist. 102, the period from 1865 to the present. (Each sem.)

**105. HISTORY OF OHIO (3)**  
*Steiner*  
 A survey from earliest times to the present: social, economic, and political. (Each sem.)

**115. ANCIENT HISTORY (3)**  
*Richter*  
 A survey of the origins of Western Civilization from prehistoric man to the disintegration of the Roman Empire, embracing a general study of the early civilizations of the Fertile Crescent and the Greco-Roman world. (Each sem.)

**120. MEDIEVAL HISTORY (3)**  
*Lindsay*  
 A study of social, economic, and cultural forces of the Middle Ages with emphasis on the institutional and cultural life from the fall of Rome to the Renaissance. (2nd sem., yearly.)

**125, 126. ENGLISH HISTORY (3, 3)**  
*Rauschenberg*  
 Designed for English majors and prelegal students as well as for the general student of history. The first semester covers the period to 1688 and stresses institutional aspects of medieval England and the social, political, and constitutional developments in the Tudor and Stuart periods. The second semester emphasizes cultural and economic developments, the British Empire, constitutional and social reforms, and the impact of World Wars I and II. (Yearly.)

**145. LATIN AMERICAN HISTORY:  
 The Colonial Period. (3)**  
*Gilmore*  
 From conquest to independence: the founding, development, and loss of the Spanish and Portuguese Empires in America. (1st sem., yearly.)

**146. LATIN AMERICAN HISTORY:  
 The National Period. (3)**  
*Gilmore*  
 The organization and development of the Latin American nations in the nineteenth and twentieth centuries. Emphasis is placed on Argentina, Brazil, Mexico, Colombia, and Peru. (2nd sem., yearly.)

**240. HISTORY OF CANADA (2)**  
*Rauschenberg*  
 An introduction to Canada: a study of its resources, its founding and development under France and England, and its emergence as an important modern state. (Not offered in 1966-67.)

**248. HISTORY AND CIVILIZATIONS OF EASTERN ASIA (3)**  
*Cady*  
 Concerns China, Korea, and Japan to the nineteenth century: governmental forms, social and economic institutions, and value concepts considered in their historical contexts. Special attention

is given to cultural borrowings from India by China and Southeast Asia, and from China by Japan. Prereq., 6 hrs., including 1. (1st sem., yearly.)

**269. TEACHING OF THE SOCIAL STUDIES IN JUNIOR AND SENIOR HIGH SCHOOLS (3)**

*C. Roberts*

The nature, development, purpose, and value of the social studies, with emphasis on methods and techniques of instruction in this field. Problems of curriculum reorganization, unit planning, materials of instruction, and evaluation. Prereq., 12 hrs. social sciences. (Each sem.)

**301. COLONIAL AMERICA (3)**

*Steiner*

The discovery and colonization of America, relation of the colonies to England, and the daily life of colonial Americans. Prereq., 6 hrs., including 101. (1st sem., yearly.)

**302. THE REVOLUTIONARY ERA (3)**

*Stevens*

An intensive study of the causes of the Revolution, the struggle for independence, the movement for a new government, and the framing of the Constitution. Prereq., 6 hrs., including 101.

**304. FEDERALISM AND JEFFERSONIAN DEMOCRACY (2)**

The shaping of America's political, social, and economic institutions, constitutional development, and traditional foreign policy under the Founding Fathers and the exponents of Jeffersonian democracy. Prereq., 6 hrs. incl., 101. (1st sem., yearly.)

**310. SECTIONAL CONTROVERSY—1820-1850 (2)**

*Stevens*

Slavery and political controversy, rise of the common man, rural conditions, transportation, immigration, education, the factory system, reform agitation, territorial annexations, and growth of nationality. Prereq., 6 hrs., including 101.

**312. THE CIVIL WAR AND RECONSTRUCTION (3)**

*Stevens*

The sections of the United States in 1850, forces leading to war, and the great conflict; Reconstruction, its background and development; restoration of home rule in the South, and general cultural and economic development. Prereq., 6 hrs., including 101.

**315. FOUNDATIONS OF MODERN AMERICA, 1877-1901 (3)**

An intensive examination of the origins of modern America, emphasizing internal industrialization and external expansion and their combined impact upon economic, social, and political life in American society. Prereq., 6 hrs. (2nd sem., yearly.)

**316. HISTORY OF THE INDUSTRIAL REVOLUTION IN THE UNITED STATES —1850-1941 (3)**

*Daniel*

Origins of the factory system in America, the impact of the Civil War, rise of heavy industry, problems of financing and control, influence of the progressive era, resurgence of big business during wartime and the twenties, and industrial problems of the depression period. Prereq., 6 hrs., including 102. (2nd sem., yearly.)

**321. THE UNITED STATES IN RECENT TIMES — 1898-1928 (3)**

*Hamby, Lobdell*

American imperialism, the Progressive Era, World War I, retreat from world responsibility and the post-war prosperity period. Prereq., 6 hrs., including 102. (1st sem., yearly.)

**322. THE UNITED STATES IN RECENT TIMES—SINCE 1928 (3)**

*Hamby, Lobdell*

The great depression, the New Deal, abandonment of isolation, World War II, and post-war crises and problems. Prereq., 6 hrs., including 102. (2nd sem., yearly.)

**323, 324. UNITED STATES FOREIGN RELATIONS (3-3)**

*Herring*

A survey of American foreign relations since 1865, emphasizing American diplomacy as a composite reaction to external forces in Latin America, the Far East, and Europe and to internal demands of American society. Prereq., 6 hrs.

**325. THE WESTWARD MOVEMENT (3)**

*Stevens*

Expansion from the Atlantic to the Pacific. Explorations, Indian trade, land policies, pioneer life, territorial acquisitions and state making, trails and railroads to the Far West, rise of "cowboy land," types of later frontiers, and influence of the West upon American ideals and institutions. Prereq., 6 hrs., including 101. (2nd sem., yearly.)

**331, 332. SOCIAL AND CULTURAL HISTORY OF THE UNITED STATES (3, 3)**

*Daniel*

Role of minorities, class structure, and religion in forming American society; development of American painting, architecture, music, literature, education, and science as expressions of American culture. Prereq., 6 hrs. (Yearly.)

**341. THE MIDDLE WEST (3)**

*Stevens*

Development of political, economic and social institutions and attitudes characteristic of Ohio and the Middle West since 1787. Emphasis on twentieth century community relationships, problems, and forms of behavior. Prereq., 101, 102.

**342. THE BRITISH EMPIRE (3)***Rauschenberg*

Development of the British Empire from the eighteenth to the beginning of the twentieth century, surveying the formulation of colonial policy and the internal growth of empire. Prereq., 6 hrs., incl. 2.

**343. BRITISH COMMONWEALTH (3)***Rauschenberg*

Evolution from empire to commonwealth during the present century; a study of the factors involved in this process and of the historical development of its component parts. Prereq., 6 hrs., incl. 2.

**347. RECENT LATIN AMERICA (3)***Gilmore*

Social and political change reflecting the needs and rivalries of an emerging middle class, organized labor, the armed forces, economic associations, and other pressure groups. The role of new parties and ideologies in guiding and stimulating change in the Latin-American nations will be analyzed. Prereq., 6 hrs. (1st sem., yearly.)

**348. PRO-SEMINAR IN CONTEMPORARY  
LATIN AMERICA (3)***Gilmore*

Directed reading and analysis of the current scene. Prereq., 347., except for grad. students. (2nd sem., yearly.)

**350. THE FAR EAST IN MODERN TIMES  
(3)***Cady*

Manchu China and Tokugawa Japan from the early nineteenth century; the opening of China; Meiji Restoration in Japan; failure of China to adjust to external pressures; Japan's emergence as a world power; Manchu collapse and abortive efforts to reconstitute the state; Japanese political developments to 1930; defeat of Japan's effort at hegemony over Eastern Asia; Communist triumph in China. Prereq., 2 or 102. (2nd sem., yearly.)

**352. SOUTHEAST ASIA (3)***Cady*

Indianization of Southeast Asia, Hindu, Buddhist, Islamic; cultural centers of historic Southeast Asia; the impact of Western colonialism on the area; liquidation of colonial rule and problems faced by the new world of Southeast Asia. Prereq., 6 hrs. (1st sem., yearly.)

**356. THE MIDDLE EAST IN MODERN  
TIMES (3)***Doxsee*

The decline of the Ottoman Empire during the course of the nineteenth century; the emergence and evolution of the successor states of the Middle East; contemporary economic, social, and political problems of the region. Prereq., 6 hrs., including 2. (1st sem., yearly.)

**361. THE RENAISSANCE AND THE  
REFORMATION (3)***Lindsay*

A study of Europe in transition from the fourteenth to the sixteenth centuries, with special emphasis on Italy, humanism, art and architecture, the later medieval church, the rise of Protestantism, and the Catholic Reformation. Prereq., 6 hrs., including 1. (1st sem., 1966-67.)

**363. TUDOR AND STUART ENGLAND (3)***Rauschenberg*

England in the sixteenth and seventeenth centuries; a study of Tudor absolutism, the English Reformation, the constitutional crises (parliament versus the Crown) of the Stuart period, the republican experiment under Cromwell, the beginnings of empire, and the major cultural and economic developments. Prereq., 6 hrs., including 1 or 125.

**364. GREAT BRITAIN SINCE 1815 (3)***Rauschenberg*

Intensive study of Britain's history in the 19th and 20th centuries, with emphasis on the growth of political and social democracy. Prereq., 6 hrs., incl. 2 or 126. (2nd sem., yearly.)

**365. FRENCH REVOLUTION (3)***Gustavson*

An intensive study of such historical factors as causality, influence of ideology, institutional organization, and the role of the individual in a great social upheaval. Pro-Seminar. Prereq., 15 hrs. (2nd sem., 1966-67).

**366. FRANCE SINCE 1815 (3)***Hehn*

Socio-political, institutional and cultural evolution; the revolutionary and authoritarian traditions under monarchy and republic; the role of France as a great power. Prereq., 6 hrs., including 2. (2nd sem., yearly.)

**367. EUROPE 1815-1870 (3)***Whealey*

From the Congress of Vienna through the Franco-Prussian War; growth of Liberalism and nationalism; the unification of Italy and Germany; contemporary cultural and intellectual movements. Prereq., 6 hrs., incl. 2.

**369. EUROPE FROM 1870 TO 1919 (3)***Whealey*

The development of France, Germany, Italy, Russia, and Britain, a study of the historical setting for an era of social upheaval and World Wars. Prereq., 6 hrs., incl. 2. (2nd sem., 1966-67.)

**370. EUROPE BETWEEN WORLD WARS (3)***Gustavson, Whealey*

Fascism, communism, and the twenty-year armistice between 1919 and 1939. Prereq., 6 hrs., including 2.

**372. CONTEMPORARY EUROPE (3)***Gustavson*

Problems of peace and war in Europe since 1939.  
Prereq., 6 hrs., including 2.

**374. EUROPEAN DIPLOMATIC HISTORY,  
1917 TO THE PRESENT (6)***Whealey*

International problems of peace and war since World War I, international organization and alliances, adjustment to the collapse of European imperialism. Prereq., 6 hrs., incl., 2. (2nd sem., 1966-67.)

**375. HISTORY OF RUSSIA (3)***Gustavson*

A survey from the earliest times to 1914. The Russian background of communist ideas, organization, and practices is stressed. Prereq., 6 hrs. (1st sem., yearly.)

**376. THE SOVIET UNION (3)***Gustavson*

A history of the U.S.S.R., with emphasis on internal affairs of the Communist regime. Prereq., 6 hrs., including 2. (2nd sem., yearly.)

**378. THE HISTORY OF MODERN GERMANY  
(3)***Gustavson*

A survey of Germany and Central Europe since the Age of Napoleon. Prereq., 6 hrs., including 2.

**379. THE BALKANS (3)***Hehn*

Brief historical background of the Balkan peoples; conflicting nationalisms and big power rivalries; Sovietization, Titoism, and 1956 Hungarian Revolution. Prereq., 6 hrs., including 2.

**380. HISTORY OF CENTRAL EUROPE (3)***Hehn*

Political, cultural, and social evolution of the Czechs, Poles, Magyars, Ukrainians, and Balts, with emphasis on the 19th and 20th centuries. Prereq., 6 hrs., incl. 2. (1st sem., 1967-68.)

**381. HISTORY OF INTERNATIONAL  
COMMUNISM (3)***Hehn*

International aspects of Marxism; European socialist parties, 1871-1914; the Bolshevik Revolution in its European context; organization, functions, and aims of the Cominform; the role of Communist parties in World War II and after; the emergence of polycentrism. Prereq., Hist. 2. (2nd sem., yearly.)

**386. PRE-COLONIAL AFRICA (3)***Booth*

History of the African continent from earliest times to the beginning of the 19th century: formation of African peoples, growth of states and empires, and the impact of European, Islamic, and Asiatic cultures. Prereq., Hist. 2. (1st sem., yearly.)

**388. AFRICA IN MODERN TIMES (3)***Booth*

African geography, resources and peoples; European contacts prior to 1860; explorers and missionaries; partitioning to 1914; recent political and economic developments; problems of racial and cultural adjustment; prospects of emerging African states. Prereq., 6 hrs. (2nd sem., yearly.)

**390. REPRESENTATIVE HISTORIANS AND  
THEIR WRITINGS (2 or 3 as  
scheduled)***Stevens*

Typical historians from the time of Herodotus with readings from their masterpieces to illustrate schools of interpretation, philosophies of history, and the development of historical writing. Prereq., 12 hrs. (2nd sem., 1966-67.)

**392. PROBLEMS IN HISTORY (1 to 3)***Staff*

Intensive individual work either in research or in systematic reading along the lines of the student's special interest under the supervision of a member of the staff. Prereq., 15 hrs., permission. Maximum credit in course, 6 hrs. (Each sem.)

**393. PRO-SEMINAR IN EAST ASIAN HISTORY  
(3)***Cady*

Historical background of East Asian developments, from India to Japan, during the past century. Pre-req., 350 or 352 and permission. (2nd sem., yearly.)

**394. PRO-SEMINAR IN AFRICAN HISTORY  
(3)***Booth, Doxsee*

Selected aspects, such as the slave trade, the Chartered Companies, diplomatic episodes, and histories of individual peoples. Prereq., 387 or 388. (1st sem., yearly.)

**395. HISTORIOGRAPHY AND METHODOLOGY  
(4)***Stevens, Staff*

An introduction to the technique of historical investigation with practice in historical criticism and writing. Prereq., 15 hrs. (1st sem., yearly.)

**398. SEMINAR IN HISTORY (1 to 3)***Staff*

Reports based upon original research with group discussion and criticism. Maximum credit in course, 6 hrs. Prereq., 15 hrs., permission.

**492. PROBLEMS IN AMERICAN HISTORY  
(2-3)***Staff*

A course of intensive reading focusing upon the interpretive literature of American history from the colonial period to the present day. Prereq., permission.

**495. THESIS (As recommended by dept.)***Staff*

Prereq., permission.

## HOME ECONOMICS

### Child Development and Family Life Education

#### Foods and Nutrition

#### Home Economics Education and Extension

#### Housing and Home Management

#### Food Service Management

#### Textiles and Clothing

*Professors V. M. Roberts (director), Womble*

*Associate Professors Bane, Sellers*

*Assistant Professors Doxsee, Davis, Langford, Lewis, Macauley, Nehls, M. L. Rogers*

*Instructors J. Adams, Lockard, B. Reese*

*Part-time Instructors E. Black, S. Slater, J. Harlan, M. Boase*

*State District Supervisor B. Reed*

The School of Home Economics offers work in the following fields: (1) Child Development and Family Life Education, (2) Foods and Nutrition, (3) Home Economics Education and Extension, (4) Housing and Home Management, (5) Food Service Management, and (6) Textiles and Clothing.

Students majoring in home economics take the basic courses in home economics and courses in general education during the first two years and follow a professional curriculum during the junior and senior years. Requirements for a Bachelor of Science in Home Economics degree are indicated under the School of Home Economics section of the catalog.

Students who are majoring in other departments may minor in an area of home economics or elect any of the basic courses: 1-2 or 12; 3-4 or 14; 5, 7, 106, 108, 110, 125 or 161.

## HOME ECONOMICS

### 51. ORIENTATION IN HOME ECONOMICS

(1)

*Staff, assisted by specialists in each field*

The opportunities for careers in the various fields of home economics. Vocational testing, guidance, and counseling.

### 161. HOME NURSING AND FAMILY HEALTH

(2)

*E. Black*

Training in simple procedures in the care of the sick and minor accidents in the home. A study of disease prevention and health promotion for the family.

### 360. WORKSHOPS IN HOME ECONOMICS

(1 to 3)

*Staff*

Special workshops to aid the home economics teacher. The areas of study include:

- a. HOME ECONOMICS EDUCATION
- b. CLOTHING AND TEXTILES
- c. FOODS AND NUTRITION
- d. CHILD DEVELOPMENT
- e. CONSUMER EDUCATION
- f. HOME FURNISHINGS
- g. HOME MANAGEMENT
- h. HOUSEHOLD EQUIPMENT
- i. SCHOOL LUNCH MANAGEMENT
- j. FAMILY LIFE EDUCATION

Maximum credit toward graduate degree, 6 hrs. Prereq., 268 or equivalent; teaching experience or qualifications for certification to teach home economics. (Summer only.)

### 381. RESEARCH IN HOME ECONOMICS

(2 or 3)

*Staff*

A project course in which the student carries on independent investigations under the guidance of the instructor. Maximum credit in course, 6 hrs. Prereq., 20 hrs., permission.

### 390a,b,c,d,e,f. FIELD WORK IN HOME ECONOMICS (2 to 4)

*Staff*

- a. HOME ECONOMICS EXTENSION
- b. HOME SERVICE WORK WITH PUBLIC UTILITIES
- c. FOOD SERVICE MANAGEMENT
- d. RETAIL MERCHANDISING
- e. RADIO-TELEVISION
- f. CHILD AND FAMILY DEVELOPMENT

Through cooperation with business organizations, department stores, hospitals, radio-television stations, the Home Economics Extension Department of Ohio State University, and the Merrill-Palmer Institute, opportunities are given for on-the-job training and practical experience. The faculty adviser serves as coordinator of the work established with these outside agencies. Prereq., 18 hrs., permission, senior rank.

### 391. SEMINAR IN HOME ECONOMICS (1-3)

*Staff*

Prereq., approval by chairman of department in which work is performed.

### 495. THESIS (As recommended by dept.)

*Staff*

Prereq., approval by chairman of department in which work is performed.

## CHILD DEVELOPMENT AND FAMILY LIFE EDUCATION

Mr. Womble, chairman

### 5. INFANT AND CHILD DEVELOPMENT (3)

*Lockard, Nehls*

The physical, emotional, social, and intellectual development of the child through adolescence. The

home environment, the care, and the guidance which foster the total development of the child will be stressed.

### 106. FAMILY LIVING (3)

*Nehls, M. L. Rogers, Womble*

The case method is used in discussing and analyzing problems confronting young people in establishing a family. Attention is given to the reinforcement the family may secure through interactions with the church, the school, and the community. Prereq., Psych. 1.

### 172. THE PRESCHOOL CHILD (2)

*Lockard, Nehls*

Continuation of H.Ec. 5 with emphasis on the preschool child. Theories and practices used in guiding children's development are gained through participation in the Nursery School. 1 lec., 3 hrs. in Nursery School. Prereq., 5 or Ed. 103.

### 370. FAMILY LIFE EDUCATION (3)

*Womble*

An examination of attitudes, relationships, and practices within the family group as a means of gaining a deeper understanding of dynamics of family living in our changing society. A development of methods and techniques of presenting family living in the home economics curriculum. Prereq., 18 hrs., Psych. 71 or 173.

### 375. READINGS IN INFANT AND CHILD DEVELOPMENT (2 or 3)

*Staff*

An intensive study through library research of a phase of child and infant development. Weekly conferences. Maximum credit in course, 6 hrs. Prereq., 106 and 172, or 9 hrs., psychology and/or sociology, permission.

### 376. READINGS IN FAMILY LIVING (2 or 3)

*Womble*

An intensive study through library research of problems in family living. Weekly conferences. Maximum credit in course, 6 hrs. Prereq., 106 and 172, or 9 hrs. psychology and/or sociology, permission.

### 377. CREATIVE EXPERIENCES WITH YOUNG CHILDREN (3)

*Nehls*

Evaluation of pre-school children's total growth and development through planned experiences with literature, science, music, dramatic play, graphic and plastic art media, and outdoor equipment. Emphasis on stimulating the child's participation in creative activities.

One hour lecture, two consecutive hours laboratory experience and three hours directed experience in the nursery school.

### 378. ADMINISTRATION OF GROUP CARE OF YOUNG CHILDREN (3)

*Lockard*

The organization and administration of Nursery School. Prereq., 106, 172. (2nd sem.), Permission.

### 379. GUIDANCE OF NURSERY SCHOOL CHILDREN (4 to 6)

*Lockard, Nehls*

Teaching and guiding in the nursery school, with participation in all phases of the nursery school program. Experience in planning and supervising activities and feeding of Nursery School Children. Two hours lecture and fifteen hours laboratory experience in the nursery school. Prereq., 377 or Ed. 272, H. Ec. 125; permission.

### 380. PRENATAL & INFANT DEVELOPMENT (3)

*Nehls, V. Roberts*

Patterns of development during the prenatal and infancy period to the year two. Changing physical and emotional needs and variables affecting development. Delineation of home and agency responsibilities for providing an environment conducive to achieving optimum development. Prereq., 375 and 125 or 9 hours of psychology and sociology, Zool. 134, and permission.

### 471. PARENT EDUCATION (2)

*Sellers, Womble*

Principles in Child Development and Family Living applied to professional work in organizing, formulating, and conducting discussion groups, classes, programs and conferences for parents and youth leaders, laboratory experience in conducting parent-teacher conferences.

Two lectures weekly and two hours laboratory. Prereq., H. Ec. 375 or 12 hours Psychology, Sociology, or Education; permission.

### 472. ADVANCED CHILD DEVELOPMENT (3)

*Nehls, Womble*

Understanding the developmental characteristics of the preadolescent and the adolescent child with emphasis upon home, family and community experiences. Focus upon the part the adolescent's family plays in his development and ways in which parents can foster the optimum development of both themselves and their teenagers.

The course also aims at the student's better understanding of himself as one who has just left adolescence or as one who is working with adolescents. Observation and/or participation in leading youth activities in the community.

Three lectures weekly. Prereq., 375 and 376 or Ed. 303, or 12 hours psych. or soc., permission.

### 477. SPECIAL STUDIES IN FAMILY RELATIONSHIPS (2 or 3)

*Rogers, Womble*

Prereq., 106 and 172, or 12 hrs. psychology, sociology and/or human relations.

### 478. SPECIAL STUDIES IN INFANT AND CHILD DEVELOPMENT (2 or 3)

*Nehls, V. Roberts*

Prereq., 106 and 172, or 12 hrs. psychology, sociology and/or human relations.

**FOODS AND NUTRITION***Miss Lewis, Chairman***1. INTRODUCTION TO FOOD SCIENCE AND PRINCIPLES (3)***Lewis, Macauley*

The study of scientific principles applied to the selection, storage, and preparation of foods. Some aspects of meal management are considered. 2 lec., 2 lab., 1 discussion.

**2. MEAL MANAGEMENT (3)***Lewis, Macauley*

The application of principles of food preparation and nutrition emphasizing the use of time, energy and resources in the management of meals. 3 lab., 2 lec. Prereq., H. Ec. I.

**12. FOOD PREPARATION AND MEAL MANAGEMENT (3)***Lewis*

The application of scientific principles in the preparation and preservation of food; consideration given to nutritional needs and meal management. Not open to those who have had H.Ec. I. 2 lec., 4 lab. Prereq., High School H.Ec. in field of Foods and Nutrition and permission.

**125. FAMILY NUTRITION (2)***Lewis, V. Roberts*

The relation of nutrition to growth, development, and maintenance of health in all age groups.

**269. TEACHING OF FOODS AND NUTRITION (3)***Lewis*

Organization of materials and methods of presenting principles of food preparation and nutrition. For majors in foods and nutrition. 1 lec., 4 lab. Prereq., 2 or 12, and 125.

**320. CREATIVE COOKERY AND MEAL MANAGEMENT (3 or 4)***V. Roberts*

An advanced course emphasizing the creative, scientific, and artistic phases of food preparation and meal management. Prereq., 9 hrs. foods and nutrition and permission. (Summer only.)

**322. EXPERIMENTAL COOKERY (3)***Lewis*

Group and individual experiments on selected problems of food preparation. 1 lec., 4 lab. Prereq., 2 or 12 and Chem. 113.

**325. COMPARATIVE STUDIES IN FOODS (3)***Lewis, Macauley*

An advanced course in food preparation including comparative cookery, and home food preservation. Factors affecting palatability and retention of nutrients in food will be considered. 1 lec., 4 lab. Prereq., 2 or 12, and Zool. 241.

**326. ADVANCED NUTRITION (3)***V. Roberts*

Principles of nutrition as applied to the feeding of individuals and families under varying conditions. 1 lec., 4 lab. Prereq., 125, Chem. 113 and Zool. 134. (1st sem.)

**328. RECENT DEVELOPMENTS IN FOODS AND NUTRITION (3)***V. Roberts*

Reports, discussions, and reviews of scientific literature. Some laboratory projects may be included. Prereq., 2 or 12 and 125 or equivalent. (Summer only.)

**329. NUTRITION IN DISEASE (2)***V. Roberts*

Application of principles of nutrition to the feeding of individuals and the use of diet in prevention and treatment of disease. Problems in planning and preparing therapeutic diets. 1 lec., 3 lab. Prereq., 326.

**340. PROBLEMS IN FOODS AND NUTRITION (2 or 3)***Lewis, Macauley, V. Roberts*

A comprehensive study of nutrition, experimental foods, food or nutrition analysis, or food service management. Maximum credit in course, 6 hrs. Prereq., 12 hrs. foods and nutrition and permission.

**433. SPECIAL PROBLEMS IN CHEMISTRY OF FOODS AND NUTRITION (2 or 3)***Lewis, V. Roberts*

An intensive study of a phase of food chemistry or nutrition. Maximum credit in course, 6 hrs. Prereq., 322 or 326.

**HOME ECONOMICS EDUCATION AND EXTENSION***Miss Sellers, chairman***155. NUTRITION FOR THE ELEMENTARY SCHOOL (2)***Lewis, V. Roberts*

Problems related to home economics at the elementary level. Emphasis on the development of good food habits and nutritional status of children.

**250. SEMINAR IN HOME ECONOMICS EDUCATION (2)***Sellers, Slater*

Problems encountered by the student teacher. Classroom management, professional responsibilities, and specific techniques used for teaching will be emphasized. Must be taken concurrently with Ed. 281.

**266. METHODS IN HOME ECONOMICS EXTENSION (3)***Langford*

History and philosophy of Home Economics Extension; principles and procedures of instruction; or-

ganization and evaluation of programs. Prereq., 18 hrs. of H.Ec. and Ed. 229.

**268. TEACHING OF HOME ECONOMICS (2)**

*Sellers, Slater*

A study of the Home Economics program at the junior and senior high school level. Special emphasis is given to vocational education, curriculum development, and evaluation procedures. Prereq., junior rank.

**350. PROBLEMS IN THE TEACHING OF HOME ECONOMICS (1 to 3)**

*Sellers, Slater*

Opportunity for individual selection of problems. Maximum credit in course, 6 hrs. Prereq., 18 hrs. and 268.

**366. VOCATIONAL HOME ECONOMICS (3)**

*Sellers*

History and philosophy of vocational homemaking education. Contemporary trends, methods, sources of materials, and evaluation. Observations arranged. Prereq., 268 or teaching experience in home economics. (Summer only.)

**367. CURRENT DEVELOPMENTS IN HOME ECONOMICS EDUCATION**

*Sellers*

Current trends and developments in home economics education programs at the secondary and post high school levels in relation to curricular developments, evaluation procedures, legislation affecting the program and research. 3 lec. Prereq., 268 or 366 and 10 hrs. of education.

**368. DEMONSTRATION TECHNIQUES (2)**

*Lewis, Roberts*

Practical experience in the demonstration of foods, equipment, or clothing. Planned for those going into secondary education or consumer service positions. 4 lab. Prereq., 12 hrs.

**369. HOME ECONOMICS IN ADULT EDUCATION (3)**

*Sellers*

Organization procedures, curriculum materials, and methods of conducting adult education groups in the field of education for family living. Prereq., 18 hrs.

**450. SPECIAL PROBLEMS IN TEACHING HOME ECONOMICS (2 or 3)**

*Sellers*

Intensive study of some phase of home economics education. Maximum credit in course, 6 hrs. Prereq., teaching experience in home economics.

**460. SUPERVISION IN HOME ECONOMICS (3)**

*Sellers*

Leadership functions, principles, and practices involved in effective supervision in the field of home economics. Designed for those interested in supervising student teachers or in-service programs at the local, state, or national level. Prereq., teaching experience in home economics.

**461. HOME ECONOMICS IN HIGHER EDUCATION (3)**

*Sellers*

Basic philosophy and issues concerning the place of home economics in higher education today. General trends in curriculum offerings, teaching practices, evaluation, administration, and research. Designed for those interested in teaching home economics at the college level. Prereq., a minimum of 24 hours in home economics.

**HOUSING AND HOME MANAGEMENT**

*Mrs. M. L. Rogers, chairman*

**7. THE HOME AND ITS FURNISHINGS (2)**

*Langford*

A practical and aesthetic study in house furnishings, including basic art qualities, styles of houses and interiors; analysis of modern floor plans; selection and arrangement of furniture and accessories.

**108. CONSUMER PROBLEMS OF THE FAMILY (2)**

*Macaulay*

Personal finance and retailing activities as they affect the role of the consumer. 1 lec., 2 lab.

**330. WORKSHOP IN HOME FURNISHINGS (3)**

*Langford*

Laboratory problems in advanced techniques in home furnishings, including upholstering, slip-covering, refinishing furniture, and making draperies. 1 lec., 4 lab. Prereq., 4 or 14 and 7; for non-majors, 3 or 14 and 4 hrs. art and permission.

**331. ADVANCED HOME FURNISHINGS (2)**

*Langford*

A study of the qualities and styles of furnishings. Problems on china, glass, silver, furniture, bedding, rugs, etc. Prereq., 330 and Art 191, or 7 and Art 2.

**334. HOUSEHOLD EQUIPMENT (3)**

*Macaulay*

A critical analysis of the use of home equipment to establish standards for effective use. 1 lec., 4 lab. Prereq., 2 or 12 and 108.

**351. HOME MANAGEMENT (2)**

*M. L. Rogers, Staff*

Economic use of time, energy, and money in the successful functioning of the home from the viewpoint of the satisfaction of members of the family. Prereq., 1 or 12 and 108, or 6 hrs. sociology.

**353. HOME MANAGEMENT LABORATORY (3)**

*J. Adams, M. L. Rogers, Staff*

Residence in the home management house for one-half semester provides experience in the use of human and material resources of the family for the optimum development of its members. A charge is made to cover room and board. Prereq., 351 or with 351, permission.

**452. SPECIAL PROBLEMS IN HOUSEHOLD EQUIPMENT AND/OR HOME MANAGEMENT (2 or 3)**

*Macauley, M. L. Rogers*

Maximum credit in course, 6 hrs. Prereq., 334, 353.

**455. ADVANCED HOME MANAGEMENT (3)**

*Rogers*

An over-all view of the field of home management and the development of its present principles and concepts. An exploration of the contributions which other disciplines have made which are applicable to home management. 3 lec. Prereq., 351, Psych. 1, Soc. 1, Econ. 11 or equivalent.

**FOOD SERVICE MANAGEMENT**

*Mrs. Macauley, chairman*

**327. QUANTITY COOKERY (3)**

*Macauley*

Preparation and serving of foods in large quantities. Use of modern equipment. Laboratory practice in the cafeteria and residence halls of Ohio University. Prereq., 2 or 12.

**342. MARKETING AND FOOD COST CONTROL (2)**

*Macauley*

Studies in production, distribution, and storage of food supplies to serve as a basis for the purchase of such commodities for quantity use. Record keeping involved in food service. 1 lec., 2 lab. Prereq., 327, Acct. 75.

**343. EQUIPMENT AND FURNISHINGS (2)**

*Macauley*

Kitchen planning and selection of equipment including materials, construction, installation, operation, care, and relative cost; floor plans and specifications. 1 lec., 3 lab. Prereq., 327.

**348. ORGANIZATION AND MANAGEMENT (3)**

*Macauley*

Principles of organization and administration which apply to food units in school lunch rooms, and public and private institutions. Administration of labor; standards of work; cost control. Prereq., 327, Acct. 75.

**TEXTILES AND CLOTHING**

*Miss Bane, chairman*

**3-4. CLOTHING SELECTION AND CONSTRUCTION (2-2)**

*Bane, M. Doxsee, B. Reese*

A basic course in clothing construction with discussions on color, line, personal attractiveness, fashion, and wardrobe planning. 1 lec., 3 lab.

**14. THEORY AND CONSTRUCTION OF CLOTHING (3)**

*Bane*

Advanced studies of clothing construction with emphasis on theory and problem solving. 3 lec., lab. arranged as needed. Prereq., high school home economics in field of Clothing and Textiles and permission.

**110. TEXTILES (2)**

*M. Doxsee, B. Reese*

A basic textile course involving the study of textile fibers and the construction, processing, and care of fabrics. 2 lec., 1 lab.

**212. FLAT PATTERN DESIGN (3)**

*Bane*

Dress pattern making on advanced fitting problems and the execution of original designs. 1 lec., 3 lab. Prereq., 4 or 14 and 110 or Art 137 and permission.

**300. NEW DEVELOPMENTS IN TEXTILES (2)**

*M. Doxsee*

New developments in textile fibers with special emphasis on new fibers, their characteristics, uses, and care. Prereq., 9 hrs. clothing and textiles. (Summer only.)

**301. TECHNIQUES IN TEACHING CLOTHING CONSTRUCTION (1 to 3)**

*Bane*

Special problems in sizing, alteration, fitting and construction as applied to teaching the high school student. Prereq., 316 or equivalent, teaching experience or certification to teach home economics. (Summer only.)

**302. TECHNIQUES IN TEACHING CLOTHING SELECTION (1)**

*Bane*

Methods of presenting clothing selection on the high school level with emphasis on psychological and economic aspects of clothing. Consumer and market trends to be included. Prereq., 316 or equivalent, teaching experience or certification to teach home economics. (Summer only.)

**310. TECHNIQUES IN CLOTHING DESIGN (3)**

*Bane*

An advanced course in clothing that offers opportunity for creative expression and for an understanding of patterns through the medium of flat pattern design. 1 lec., 3 lab. Prereq., 4 or 14 and 110.

**313. CLOTHING AND TEXTILES FOR THE CONSUMER (2)**

*M. Doxsee*

Problems presented to the buyer and the consumer in purchasing textile products such as lingerie, home-furnishing fabrics, ready-to-wear, and accessories. Prereq., 9 hrs. clothing and textiles, Ec. 11 or 101.

**314. FASHION MERCHANDISING (3)**

*Bane*  
A study of retail practices related to the field of fashion. Publicity and promotion, stock control, buying and selling of fashion merchandise. 2 lec., 2 lab. Prereq., Ec. 12 or 102, Mkt. 155.

**315. HISTORY OF COSTUME AND TEXTILES (2)**

*M. Doxsee*  
Study of costume and textiles through the ages as a basis for the understanding and appreciation of present-day costumes. Prereq., 4 or 14 and 110.

**316. TAILORING (3)**

*Bane*  
Tailoring of suits or coats. Emphasis placed on professional techniques, advanced fitting problems, and construction of high fashion garments. 6 lab. and demonstration. Prereq., 4 or 14 and 110.

**318. ADVANCED TEXTILES (3)**

*M. Doxsee, B. Reese*  
Physical and chemical examination of fibers and fabrics. Problems in the comparison and evaluation of fabrics. 1 lec., 4 lab. Prereq., 4 or 14 and 110; Chem. 3.

**319. ADVANCED STUDIES IN TEXTILES (3)**

*M. Doxsee, B. Reese*  
Application of testing techniques applied to specific textile studies. 1 lec., 4 lab. Prereq., 318.

**HOME ECONOMICS PROGRAMS FOR INTERNATIONAL STUDENTS**

*Miss V. Roberts, Coordinator*

The increased number of International students studying Home Economics at the professional level warrants a special program relating Home Economics to family and community development in their different cultures and communities.

The International Home Center and Library established by the School of Home Economics is of special value in the training of students from other countries. Laboratories in the Home Center are set up to demonstrate good practice in home and community development which can be readily adapted to any of the nations.

Classroom and laboratory work taken with regular university classes is supplemented each semester with seminars relating the student's work to her home country. First, the students are given the opportunity to analyze their respective countries for the prevailing social and economic conditions, the health and sanitation problems, the nutritional status of the people, and the cultural and religious patterns and how they affect the home and the family.

Later seminars are concerned with specific areas which need special study, such as Nutrition and Food Habits; Health and Home Care of the Sick; Food Preservation; Sanitation; Infant and Child Care; Clothing; Home Improvement and Home Management; and Housing and Community Development. Seminars include not only discussion but some demonstrations and laboratory practice.

*Special courses in developing programs for the school, for adult education classes, and for Home Economics Extension programs are featured.*

**WORKSHOPS, CONFERENCES, AND SHORT COURSES IN HOME ECONOMICS FOR INTERNATIONAL STUDENTS AND VISITORS**

Summer programs in the International Home Center vary according to the needs of the International groups visiting the campus. These groups may be students needing special training in some area of Home Economics, participants in the Peace Corps program, or faculty who are concerned with the training of International students.

The following workshops, conferences, or short courses may be established as the need arises:

- (a) NUTRITION AND HEALTH PROBLEMS IN DEVELOPING NATIONS OF THE WORLD (Specific areas may be emphasized from time to time)
- (b) SANITATION AND HEALTH PROBLEMS
- (c) ESTABLISHING HOME ECONOMICS EXTENSION PROGRAMS IN DEVELOPING NATIONS
- (d) CURRICULUM AND TEACHING PRACTICES FOR SECONDARY SCHOOLS
- (e) CURRICULUM AND TEACHING PRACTICES FOR COLLEGES AND UNIVERSITIES
- (f) HOME AND COMMUNITY IMPROVEMENT
- (g) INFANT AND CHILD CARE
- (h) HOUSING AND HOME MANAGEMENT
- (i) ADULT AND EXTENSION PROGRAMS FOR DEVELOPING NATIONS OF THE WORLD
- (j) CURRICULUM STUDIES AND EVALUATION OF HOME ECONOMICS PROGRAMS FOR INTERNATIONAL STUDENTS

**HUMAN RELATIONS**

*Professor B. R. Black (chairman)*

*Associate Professors Carew, Ostlund*

*Assistant Professor Griffis*

*Instructors E. Anderson, Sheeder*

There is a growing need for a training program for professional workers in human relations. More and more people are awakening to the central importance of relationship factors in all human enterprise—education, government, and international affairs, industry, social institutions, and community development. Our Human Relations program is interdepartmental and is planned to meet the need for practitioners skilled in these areas. Because our program is interdepartmental in nature, a student is not required to select a minor for his Master of Arts degree. Courses are designed to contribute to the general education of students in any field. Majors in any area who plan to prepare for personnel work in business and industry, social work and administration, government agencies, or education are invited to confer with members of the staff about selection of courses.

**291-292. PRACTICUM IN STUDENT PERSONNEL (3-3)**

*E. Anderson, Carew*

A survey of the problems of orientation of freshman to college. Supervised experience, including observation, discussion, and practice in personnel and guidance. 1 lec., minimum of 4 lab. Prereq., permission. (yearly.)

**303-304. HUMAN RELATIONS (3-3)**

*Black, Carew, Ostlund, Sheeder*

A course taught by the case method, designed for students interested in studying the habits and skills of analysis, judgment, and action important to people in all walks of life. Prereq., junior, senior, or graduate rank. (303, each semester; 304, 2nd sem., yearly.)

**325. FIELD WORK OR RESEARCH (1 to 3)**

*Staff*

An opportunity for individual work in a specialized area of human relations; field work in human relations; or research under the direction of the staff. Maximum credit in course, 6 hrs. Prereq., 303, permission. (Each sem.)

**384. GROUP DYNAMICS (3)**

*Carew, Ostlund*

Principles and techniques used in research concerning groups and their members. The content includes variables such as structure, process, products, and changes, as well as a background of history, theories, techniques, and applications of group dynamics. Prereq., Psych. 1 or 101 or Soc. 1 or 101. (Each sem.)

**486, 487. PRACTICUM IN STUDENT PERSONNEL ADMINISTRATION (3, 3)**

*Griffis*

Practice in working under supervision in: residence halls, fraternities, sororities, environmental health, off-campus housing, student government, student organizations, offices of the personnel deans, foreign student advising and programming, student discipline, extra-curricular activities, student publications, campus religious affairs. Prereq., second and third year graduate students in human relations and in student personnel services; permission. (Yearly.)

**491. SEMINAR IN HUMAN RELATIONS (3)**

*Ostlund*

The course will offer lectures and a practicum in experimentation and research writing in the social sciences. Students will present projects for class analysis. Prereq., 303, permission. (1st sem., yearly.)

**493, 494. SEMINAR IN COLLEGE STUDENT PERSONNEL ADMINISTRATION (3, 3)**

*Black, Carew*

Designed for those specializing in college student personnel work. Emphasis on philosophy and current trends in student personnel work and administrative procedures for effective coordination of

services within a college student personnel program. Prereq., 18 hrs. social sciences, permission. (Yearly.)

**495. THESIS (As recommended by dept.)**

*Staff*

Prereq., permission.

## INDUSTRIAL ARTS

*Professor Perry (chairman)*

*Associate Professors Hawlk, Paige*

*Assistant Professors Adams, Calvin, Covert, Creighton, Squibb, Shull*

*Instructors Gysler, Jenkins, Moore, Roth*

The requirements for an industrial arts major in the program leading to a Bachelor of Science in Education degree are outlined in the College of Education section of the catalog. The program outline for the Bachelor of Science in Industrial Technology degree is described in the College of Engineering and Technology.

**9. CRAFTS (2)**

*Moore, Perry*

Fundamentals of working with leather, art metal, enameling, and plastics. Open to any student in the University. 4 lab.

**15. METAL FORMING AND JOINING (3)**

*Roth, Squibb*

A course introducing common methods of forming and joining metals, including bending, cutting, punching, drilling, seaming, soldering, riveting, filing, forging, casting, welding, and the use of special fasteners. 1 lec., 4 lab.

**16. MACHINE METALWORKING (3)**

*Adams, Calvin*

A beginning course in machining of metals with emphasis on the lathe. Other machines studied and operated include the drill press, shaper, vertical and horizontal milling machines, surface and cylindrical grinders, and the turret lathe. Layout and gauging are emphasized. 1 lec., 4 lab.

**17. METALWORKING FOR ENGINEERS (3)**

*Roth, Squibb*

Machine shop, foundry, and welding techniques and processes. For mechanical engineering majors. 1 lec., 4 lab.

**50. THE WOOD INDUSTRY (3)**

*Adams*

The technology of wood and related fabrication processes, tools and machinery. For industrial technology students. 1 lec., 4 lab.

**80. DRIVER EDUCATION (1)**

*Covert, Moore*

A course for novice drivers. Credit and points not counted toward degree. 1 lec., 2 lab. Fee, \$15.

**101. CERAMICS (2)***Hawlk*

Practice in common forming, firing, and glazing techniques employed in the ceramic industry. 1 lec., 3 lab.

**102. ENAMELING AND GLASSWORK (2)***Moore, Perry*

Practice in original design and skill development. 4 lab. Prereq., 9 or permission.

**107. ART METAL (2)***Adams, Moore*

Art metal methods and metal spinning. 4 lab.

**108. PLASTICS (2)***Baird*

A study of the properties, uses, and production of plastics and related synthetics. Processes involved in forming and fabricating plastic products. 1 lec., 3 lab.

**120. SMALL ENGINES (2)***Shull*

Practice in maintenance, tuneup, reconditioning, and repair of small two-cycle and four-cycle gasoline engines. 1 lec., 3 lab.

**123. AUTOMOTIVE THEORY AND REPAIR (3)***Shull*

Emphasis on servicing and overhauling the engine and chassis. 1 lec., 4 lab.

**132. INDUSTRIAL ELECTRICITY (3)***Perry*

Emphasis upon power generation, distribution, rectification, motors, and control circuits. 1 lec., 4 lab. Prereq., Physics 6.

**133. ELECTRICITY (3)***Creighton, Perry*

Study of sources, control and uses of electrical energy. Emphasis on methods of presenting this material to high school classes. 1 lec., 4 lab. Prereq., Physics 6.

**135. BASIC ELECTRONICS (3)***Creighton*

Theory and practice in fundamental electronic circuits. 1 lec., 4 lab. Prereq., 132 or 133.

**141, 142. GRAPHIC ARTS (3, 3)***Jenkins*

For students preparing to teach. 141: letterpress, screen process, bookbinding, papermaking, history and evolution of book and printing industries; 142: offset lithography, photographic screen process printing, industrial photography, duplicating methods, course construction and problems of teaching the graphic arts. 1 lec., 4 lab.

**144. GRAPHIC ARTS PROCESSES (3)***Jenkins*

A survey course covering the major printing processes and their allied industries for technology students. 1 lec., 4 lab.

**150, 151. GENERAL WOOD (3)***Paige*

Design of objects and methods of construction using wood. 150, introduction; 151, machine processes. 1 lec., 4 lab. Prereq., E. G. 15.

**152. WOOD TURNING (2)***Paige*

Design and construction involving wood lathe processes. 4 lab.

**153. FURNITURE UPHOLSTERY (2)***Paige*

Construction and repair of upholstered furniture. 4 lab.

**161. INDUSTRIAL ARTS DESIGN (2)***Hawlk*

Principles of design and their application to industrial arts projects. 4 lab. (2nd sem.)

**170. TEACHING OF INDUSTRIAL ARTS (3)***Squibb*

Methods of presenting technical and related material in industrial arts classes. Prereq., 12 hours. (1st sem.)

**180. DRIVER AND TRAFFIC SAFETY EDUCATION (3)***Covert, Moore*

Critical analysis of traffic accidents, attitude factors, essential knowledge of automobile operations, and traffic laws and regulations. Includes laboratory experience for developing driving skills. 2 lec., 2 lab. Prereq., Psych. 71.

**190. MATERIALS OF INDUSTRY (3)***Paige*

Sources, manufacture, and application of common materials and finishes.

**191. INDUSTRIAL ARTS FOR THE ELEMENTARY SCHOOL (2)***Hawlk*

Planning and construction of projects associated with classroom work. 4 lab.

**195. SUPERVISED WORK EXPERIENCE (1-5)**

Industrial work-study experience designed to familiarize the student with organization and applications of modern industry. Credit dependent upon advance registration, and acceptance by approved companies participating in this program. May be repeated for maximum credit of ten hours. Permission.

**210. PATTERNMAKING AND FOUNDRY (3)***Squibb*

A study of the principles of pattern construction and the methods of producing castings through different foundry techniques. 6 lab. Prereq., 15 and 50 or 151.

**211. WELDING (2)***Roth, Squibb*

Advanced practice in oxy-acetylene, electric arc, and spot welding. 4 lab. Prereq., 15.

**212. MACHINE SHOP (2)***Calvin*

Operation of engine lathe, milling machine, shaper, and grinder. 4 lab. Prereq., 16.

**213. SHEET METAL PRESSWORK (2)***Adams*

A course in the fundamentals of press operation to include forming, punching and the construction, setup and operation of elementary die sets. 4 lab. Prereq., 15 and 16.

**218. ADVANCED METAL WORK (3)***Adams*

Machine shop work involving laboratory applications of mass production processes, gauging, inspection and quality control. 6 lab. Prereq., 15 and 16.

**220. HYDRAULIC CONTROLS (2)***Paige*

Application of hydraulic principles to common industrial applications of power transmission and mechanism control, including a study of hardware and circuitry. 1 lec., 3 lab. Prereq., Physics 5.

**221. POWER APPLICATIONS (3)***Shull*

A study of modern power applications, involving new utilizations of basic power principles. 1 lec., 4 lab. Prereq., 132 or 133.

**231. ELECTRONIC APPLICATIONS (3)***Creighton*

Industrial applications and extensions of electronic circuitry studied in the basic course, including semi-conductors. 1 lec., 5 lab. Prereq., 135.

**247. ADVANCED GRAPHIC ARTS (2)***Jenkins*

Problems in letterpress and offset printing. Emphasis on layout and design. 4 lab. May be repeated for maximum credit of 4 hours. Prereq., 142 or 144.

**250. ADVANCED WOOD (2 or 3)***Paige*

Individually designed project construction. 4 or 6 lab. Prereq., 50 or 151.

**261. DEVELOPMENTAL PRINCIPLES AND PRACTICES FOR INDUSTRIAL PRODUCTS (3)***Hawlk*

Orientation to the field of product development. A study of problems, fundamental goals and contributions to society. 1 lec., 4 lab. Prereq., E. G. 1.

**270. ADMINISTRATION OF INDUSTRIAL ARTS (3)***Squibb*

Types of organization, laboratory planning, equipment selection, and accounting systems are studied. Prereq., 12 hours. (2nd sem.)

**280. THE TEACHING OF DRIVER AND TRAFFIC SAFETY EDUCATION (3)***Covert, Moore*

Organization, administration, and techniques essential to the teaching of driver education. Includes laboratory teaching experiences. 2 lec., 2 lab. Prereq., 180.

**281. PROBLEMS IN SAFETY (2)***Covert, Roth*

Special emphasis on applications in the areas of manufacturing and transportation.

**290. SHOP AND MACHINE MAINTENANCE (2)***Adams*

Practice in maintenance of tools and machines. 4 lab. May be repeated for maximum credit of 4 hours. Prereq., 12 hours.

**361. DEVELOPMENT OF TEACHING AIDS FOR INDUSTRIAL EDUCATION (2)***Perry, Squibb*

Construction of aids based upon analysis of teaching situations. 4 lab. Prereq., teaching experience.

**362. PROJECT DEVELOPMENT (3)***Staff*

Development of original projects with related instructional materials applicable to selected areas of industrial arts.

**380. WORKSHOP IN DRIVER EDUCATION (1 to 3)***Covert, Moore*

A course for teachers. Activity guided by problems in present programs. Prereq., certification in driver education. (Summer only.)

**390. SPECIAL PROBLEMS IN INDUSTRIAL ARTS (2 or 3)***Staff*

Research on selected problems.

**403. CURRENT TRENDS AND DEVELOPMENTS IN INDUSTRIAL EDUCATION (2)***Staff*

New developments and undertakings in the field of industrial education as interpreted by visiting personnel.

**426. HISTORY AND PHILOSOPHY OF INDUSTRIAL EDUCATION (3)***Hawlk*

**450. ADVANCED WORK IN TECHNICAL AREAS (2)**

*Staff*

May be repeated in different areas for a maximum credit of 8 hours. 4 lab.

**457. PROGRAM PLANNING IN INDUSTRIAL ARTS (3)**

*Staff*

Planning industrial arts curricula for specific schools.

**471. ADMINISTRATION AND SUPERVISION OF INDUSTRIAL EDUCATION (2 or 3)**

*Squibb*

Problems and practices of supervising vocational and nonvocational industrial education in the public schools.

**481. RESEARCH IN INDUSTRIAL ARTS (1 to 3)**

*Perry*

A written report of the investigation is to be presented to the departmental graduate committee. May be repeated for maximum credit of 6 hours. Prereq., Ed. 488.

**491. SEMINAR IN INDUSTRIAL ARTS EDUCATION (1 to 3)**

*Staff*

May be repeated for maximum credit of 6 hours.

**495. THESIS (As recommended by dept.)**

*Staff*

Prereq., permission.

## ITALIAN

(See Modern Languages)

## JOURNALISM

*Professors Baird, Hortin (director), Turnbull  
Associate Professors Gentry, Sargent, Stempel,  
Wagner*

*Assistant Professors Click, Kliesch*

*Part-time Instructors McDargh, Powers, Reamer*

**1. INTRODUCTION TO JOURNALISM (2)**

*Gentry, Sargent, Wagner*

Analysis of the forms and purposes of journalistic communications—reporting, editing, management, advertising, radio and television news, public relations, free lance and feature writing, photo-journalism; opportunities for careers in the various sequences; guidance and counseling; survey of facilities.

**105. HISTORY OF AMERICAN JOURNALISM (3)**

*Baird, Click, Stempel*

A study of the development of newspaper, magazine, and radio journalism from the colonial period

to the present, including political economic, and mechanical aspects. Prereq., Eng. 4.

**107. NEWSPAPER REPORTING (3)**

*Baird, Click, Gentry*

Instruction in methods of gathering material and writing news reports, interviews, reports of speeches, follow-ups and re-writes, human interest stories, and specialized news. Practice work covering assignments and preparing copy. Prereq., Eng. 4, and the ability to operate a typewriter efficiently.

**111. REPORTING PRACTICE (1 or 2)**

*Reamer*

Students are assigned to general reporting on *The Athens Messenger*, which includes the covering of definite news beats as well as special assignments. Prereq., 107 and permission.

**140. THE COMMUNITY NEWSPAPER (2)**

*Staff*

The course stresses editorial and business phases of weeklies and small dailies. Problems include editing, editorial writing, and rural correspondence; school, church, and business life; circulation, advertising, job printing, and mechanical equipment. Prereq., Eng. 4.

**146. GRAPHICS OF COMMUNICATION (3)**

*Baird, Turnbull*

Make-up in type of newspaper pages, following introduction to hand composition. Study of principles of good make-up of ads and news, including correct choice of type. Mechanics of printing reproduction studied.

**217. NEWSPAPER AND MAGAZINE EDITING (3)**

*Kliesch, Stempel*

Principles and practices of copyreading, headline writing, illustration, and make-up for newspapers, tabloids, ad magazines. Other phases: picture editing, desk problems, wire and syndicate material. Prereq., 107.

**221. EDITING PRACTICE (1 or 2)**

*Powers*

Students are assigned to copyreading on *The Athens Messenger*, handling local, correspondence, and wire copy, and working out make-up problems. Prereq., 217 and permission.

**230. REVIEWING AND CRITICISM (2)**

*Gentry*

A study and analysis of books, art, drama, music, photography, radio, television, and other public presentations. Students write reviews and criticisms after studying outstanding examples in recognized publications. Prereq., 107, Eng. 4.

**247. NEWSPAPER ADVERTISING AND LAYOUT (3)**

*McDargh*

A study of the operation of the advertising department from the viewpoint of the advertising manager. Prereq., Advt. 155.

**251. CONTEMPORARY THOUGHT AND DEVELOPMENTS (3)***Click, Stempel*

Contributions in all phases of modern society are discussed by university faculty members and other authorities. Students are required to do reference reading and to write news reports of the discussions. Prereq., 107, junior or senior rank.

**277. NEWSPAPER ADVERTISING PRACTICE (1 to 4)***McDargh*

Laboratory work in preparing copy for local display advertisers of *The Athens Messenger*. Other practice problems in the fields of classified, national, and promotion advertising. Prereq., 247 and permission.

**280. RADIO-TELEVISION NEWS WRITING AND EDITING (2)***Wagner*

The study and practice of writing and editing news for broadcasting. Students will prepare radio news from local sources and press services. Prereq., 107, permission.

**285. RADIO-TELEVISION NEWS PRACTICE (1 or 2)***Wagner*

A laboratory course in the production of regular newscasts covering both preparation of copy and the actual broadcasts of the script over University radio and television stations. Maximum credit in television newsroom. Prereq., 280 or permission.

**303. TELEVISION NEWS PRODUCTION (2)***Wagner*

The preparation and production of television news. Experiments in visual presentation of news and discussion of the organization and policies of the television newsroom. Prereq., 280 or permission.

**304. SEMINAR IN BROADCAST NEWS (2)***Wagner*

Discussion of problems—operational, social, legal and ethical—faced by broadcasters covering today's news. Prereq., permission.

**306. NEWSPAPER AND COMMUNICATIONS LAW (2)***Hortin, Sargent*

Principles and case studies of the law of the press with emphasis on constitutional guarantees, libel, contempt, privacy, copyright, privilege, and administrative controls. Some consideration of regulations pertaining to radio and television. Prereq., 217, senior rank.

**307. REPORTING OF PUBLIC AFFAIRS (2)***Gentry*

Includes a study of governmental, civic, and business organizations: courts, legal procedure, city and county government, state and national organizations, banks, political parties, and community activities. Prereq., 111 or permission and senior rank in journalism.

**309. RADIO-TELEVISION ADVERTISING AND MANAGEMENT (3)***Turnbull*

A study of the business principles and practices in the broadcasting industry, dealing with problems in radio and television station operation, with major emphasis on time sales. Prereq., Advt. 155 or permission.

**322. FEATURE AND MAGAZINE WRITING (3)***Baird, Sargent*

A study of newspaper, magazine, and pictorial features, followed by practice in writing and marketing of various types. The course includes finding subjects, securing photographs, writing articles, and surveying markets. Prereq., 107, or 12 hrs. of English or permission.

**323. ADVANCED FEATURE AND MAGAZINE WRITING (2)***Gentry, Kliesch*

Students are permitted wide range in selecting feature subjects. High-grade writing is stressed with definite idea of publication. Prereq., 322.

**325. THE EDITORIAL PAGE (2)***Gentry*

A study of the editorial page as to purpose, style, and effect. Training is given in writing interpretive news articles, columns, and all types of editorials. Prereq., permission.

**327. PUBLIC RELATIONS PRINCIPLES (3)***Hortin*

Study and practice of fundamental public relations functions. Emphasis is placed on polling, publicity writing, and preparation of literature of business organizations—house organs, reports, pamphlets, advertisements, leaflets, manuals, and letters. Prereq., 107, 146, and junior rank or permission.

**328. ADVANCED PUBLIC RELATIONS (3)***Hortin, Staff*

A study of advanced public relations problems, policies, and practices of various institutions and organizations in modern society. Attention is focused on public relations program development. Prereq., 327 or permission.

**329. INDUSTRIAL AND BUSINESS MAGAZINES (2)***Baird, Click*

Study of industrial, business, and institutional publications. Analysis of contents, purposes, and readership of such publications. Practice in copy preparation and make-up. Staff, costs, printing, and circulation are considered. Prereq., 111, 146.

**343. NEWSPAPER MANAGEMENT (2)***Turnbull*

A study of the problems and economics of publishing. Consideration is given to policy making as it affects all departments of the newspaper plant. Prereq., junior or senior rank.

**348. ADVERTISING PRODUCTION (2)***Turnbull*

Study of mechanical, graphic, and creative methods of advertising production; comparative analysis of printing processes; relation of color, art work, type, media, and quality of paper to advertising purpose; study of cost and controls. Prereq., 247 or Advt. 332 or permission.

**370. INTERNSHIP (3)***Hortin, Staff*

A conference course open only to students who have completed their internship work with an approved organization. Students will submit a comprehensive report involving analysis and problems encountered during the summer training. Prereq., only by permission; junior rank or above, and completion of summer internship.

**375. SPECIALIZED JOURNALISM (3)***Click, Wagner, Staff*

A course designed for students desiring training in special fields—science, sports, society, politics, military, home economics, agriculture, religious activities, teaching journalism, music, and other approved areas. Prereq., junior rank or above, permission.

**376. GRAPHIC PRODUCTION PROCESSES (3)***Turnbull, Staff*

Advanced study of all processes for reproducing the printed word and pictures, including photo-engraving, lithography, letterpress, rotogravure, mimeographing, and duplicating. Emphasis is placed on developing a thorough understanding of the latest developments in each field as they affect editing, advertising, public relations, and television news. Includes theory and laboratory work in preparation of written and photographic copy for each process. Prereq., 146, senior rank, permission.

**378. SUPERVISING SCHOOL AND COLLEGE PUBLICATIONS (3)***Baird, Staff*

A conference course for advisers of high school and college newspapers, magazines, and yearbooks. Problems relating to staff selection, content of publications, copy, layout, photography, printing, advertising, and business phases. In summer sessions the Publications Workshop will be analyzed on a case study basis. Prereq., 12 hrs. or permission.

**381. RESEARCH IN JOURNALISM (1 to 8)***Sargent, Staff*

Prereq., 18 hrs in journalism and advertising, permission.

**403. SEMINAR IN THEORY OF MASS COMMUNICATIONS (3)***Gentry, Kliesch, Sargent, Stempel*

Examination and discussion of problems of mass communications, their role as social institutions, their control and support, and their effects. Study of thesis writing and selection of a thesis problem. Prereq., permission.

**405. SEMINAR IN RESEARCH METHODS (3)***Sargent, Stempel*

A study of the methods of empirical research in mass communications: research techniques, leadership studies, readability formulas, content analyses, questionnaire techniques and interviews. Prereq., 403 or permission.

**406. INTERNATIONAL COMMUNICATIONS (3)***Kliesch, Staff*

A study of the development and operation of the mass communications channels and agencies by which news is gathered and disseminated throughout the world. A comparative analysis of media practices and the flow of news among various major countries. The relation of communications practices to international policies and programs. Prereq., permission.

**409. LITERATURE OF JOURNALISM (3)***Gentry, Kliesch, Stempel*

Directed reading and discussion of outstanding professional literature in the field of journalism. Prereq., permission.

**425. GOVERNMENT AND MASS COMMUNICATIONS (3)***Sargent, Stempel*

Communications and political order, theory and structure of democratic and totalitarian communications systems, relationship between government and mass communications in the modern world. Prereq., permission.

**495. THESIS (As recommended by dept.)***Staff*

Prereq., permission.

**LIBRARY SCIENCE**

*Assistant Professors Wright (director of libraries), Linnenbruegge, Bibliographer J. W. Boyd, and Staff*

Courses in Library Science under the direction of the Director of Libraries, in cooperation with the College of Education, provide training for students wishing to qualify as teacher-librarians under the Ohio Department of Education. Library Science 191 is also useful as a general elective for students interested in training for graduate or research work in any field of study. Students in literature or fine arts may find Library Science 194 helpful. Ed. 102 also counts for a minor in library science.

**191. THE USE OF LIBRARY RESOURCES (3)***Bennett, Betcher*

Training in the effective use of modern library resources. Required for a minor in library science. (1st sem., yearly.)

**192. CLASSIFICATION AND CATALOGING OF BOOKS (3)***Bennett*

Training in classifying and cataloging books, with practice in the preparation of a card catalog for

a high school library. Required for a minor in library science. (2nd sem., yearly.)

**194. HISTORY OF BOOKS AND PRINTING (3)**

*Boyd*

A survey of the development of books and printing from early times to the present. (2nd sem., yearly.)

**202. BOOKS FOR HIGH SCHOOL READERS (3)**

*Bennett*

An introduction to books and book services for the high school age group. (1st sem., yearly.)

**291. THE SCHOOL LIBRARY (3)**

*Bennett*

Methods and materials used in organizing and developing school library service. Required for a minor in library science. (1st sem., yearly.)

**392. ADVANCED LIBRARY STUDIES (1 to 3)**

*Staff*

Individual projects. Prereq., 191, 291. (Offered on demand.)

**393. PRACTICAL PROBLEMS IN SCHOOL LIBRARY SERVICE (3)**

*Staff*

Prereq., 291. (2nd sem., 1967-68.)

## LINGUISTICS

(See English)

## MANAGEMENT

*Professor Hellebrandt*

*Associate Professor Grieco*

*Assistant Professors Bolon (chairman), Panico, Weaver*

*Instructors Sevier, Stinson*

*Lecturer French*

**100. QUANTITATIVE METHODS I (3)**

*Panico*

A study of mathematical techniques as applied to business decisions. Prereq., Math. 11 and 12.

**101. QUANTITATIVE METHODS II (3)**

*Panico*

Business decisions when dealing with certainty, risk and uncertainty. Prereq., 100.

**110. MANAGEMENT (3)**

*Staff*

Management, the integrating function of business organization. Prereq., Ec. 12 or 102 or permission.

**120. ORGANIZATIONAL BEHAVIOR (3)**

*Staff*

Behavioral relationships within organizations. Prereq., Ec. 12 or 102 or permission.

**301. PRODUCTION (3)**

*Hellebrandt, Stinson*  
The productive process and its place in business activity. Prereq., 110, Stat. 155 or permission.

**302. PRODUCTION (3)**

*Hellebrandt, Stinson*

Prereq., 301 or permission.

**308. PRODUCTION PLANNING AND CONTROL (3)**

*Stinson*

Development of a scientific approach to the solution of planning and control problems in any type of production or management activity. Prereq., 110 or permission.

**310. MANAGEMENT RESPONSIBILITIES IN SOCIETY (3)**

*Staff*

Prereq., 110 or permission.

**312. ADMINISTRATION OF PERSONNEL (3)**

*Bolon*

A detailed study of a realistic compendium of practices in the field of personnel management. Includes in-basket training, stress interviewing, and group oral performance testing. Prereq., 110, or permission.

**314. PERSONNEL MANAGEMENT PROBLEMS (3)**

*Bolon*

A detailed study of personnel problems and their relation to various personnel management principles dealing with such subjects as induction and training, transfers and promotions, and morale. Case method. Prereq., 312 or permission.

**321. MOTION AND TIME STUDY (3)**

*Stinson*

An introduction to methods, time study, and wage payment. Includes considerable practical as well as theoretical work in the areas of operation analysis, motion study, micromotion study, predetermined time systems, stop watch study, standard data, and work sampling. Prereq., 301 or 110 and/or permission.

**325. INDUSTRIAL RELATIONS (3)**

*Hellebrandt*

Objectives, establishment, and procedures of collective bargaining; administration of collective bargaining agreements; labor-management cooperation; methods of conciliation, mediation, and arbitration. Case method. Prereq., 110, 120 or permission.

**330. INFORMATION MANAGEMENT (3)**

*Weaver*

Analysis of basic data processing activities and of information flows in a business organization within a total-systems framework and the concept of rhocrematics. Use of systems-analysis, cases, and individual research problems. Prereq., 110 or permission.

**332. WAGE AND SALARY ADMINISTRATION (3)**

*Bolon*  
The factors determining industrial wage and salary policies, methods of employee payments, wage relationships, wage rate setting, incentive wage plans. Techniques and methods of implementing wage and salary policies. Lab oriented. Prereq., 312 or permission.

**340. ORGANIZATION THEORY (3)**

*Weaver*  
Development of behavioral, quantitative, decision theory, and network-analysis contributions to business organization theories within general systems theory framework. Prereq., 110, 120 or permission.

**345. ADVANCED PRODUCTION PROBLEMS (3)**

*Hellebrandt, Stinson*  
Case studies of production problems in a number of different industries; designed to apply to all phases of the student's training and experience. Prereq., 302, senior rank and/or permission.

**350. ELECTRONIC DATA PROCESSING (3)**

*Weaver*  
Background information necessary for understanding the effect of computers on business management and organization. Includes the use of the incident process and case studies. Prereq., 100, 110 or permission.

**360. OPERATIONS RESEARCH (3)**

*Panico*  
The objectives of operations research in objective decision making, including consideration of techniques. Prereq., 100, 110 or permission.

**380. ADMINISTRATIVE POLICY (3)**

*Staff*  
The integration of the subject matter in the functional areas of the core curriculum through the study of the problems of top management, organization, administration techniques, and policy formulation. Prereq., senior standing in the College of Business Administration or permission.

**381. RESEARCH IN MANAGEMENT (1 to 8)**

*Staff*  
Prereq., 16 hrs. economics and/or business administration, including 301 or 312, and permission.

**391. SEMINAR IN MANAGEMENT (2 to 4)**

*Staff*  
Maximum credit in course, 10 hrs. Prereq., 15 hrs. management and/or economics and permission.

**410. BUSINESS POLICY (3)**

*Bolon, Hellebrandt, Panico, Weaver*  
A top management view of decision making affecting the future operations of a business, and the opportunities, risks and responsibilities accompanying the formulation of company policy. Prereq., 12 hrs. graduate credit in business administration including economics.

**481. RESEARCH, ANALYSIS, AND REPORT WRITING (3)**

*Krauskopf*  
Prereq., permission.

**491. SEMINAR IN MANAGEMENT (2 to 4)**

*Staff*  
Maximum credit in course, 8 hrs. Prereq., permission.

**495. THESIS (As recommended by dept.)**

*Staff*  
Prereq., permission.

## MARKETING

*Professor Krauskopf (chairman)*

*Associate Professor Raymond*

*Assistant Professors Day, Hewitt, Muse,  
Richmond*

**255. MARKETING PRINCIPLES (4)**

*Staff*  
The principles, methods, and policies of marketing with special reference to the decisions of the individual firm. Prereq., Ec. 12 or 102.

**258. MARKETING PROBLEMS (3)**

*Raymond, Richmond*  
A consideration by the case method of the problems facing the producer and the middleman. Prereq., 255.

**276. SELLING AND SALES MANAGEMENT (3)**

*Raymond*  
Principles and practices in planning, organizing, and controlling a sales force including selecting, training, compensating, supervising, and stimulating salesmen. Some emphasis on the principles of personal selling. Prereq., 255.

**301. RETAIL SELLING POLICIES (3)**

*Hewitt*  
The organization and operation of retail institutions. Prereq., 255.

**302. RETAIL BUYING AND STOCK CONTROL (3)**

*Hewitt*  
A study of buying, receiving, and stock control practices in retail stores. Prereq., 301.

**311. RECENT TRENDS IN MARKETING AND SELLING (3)**

*Krauskopf*  
Prereq., 255.

**325. INDUSTRIAL MARKETING (3)**

*Day, Muse*  
A consideration of the problems involved in the marketing of industrial goods. Prereq., 255.

**326. INDUSTRIAL PURCHASING (3)***Muse*

A study of the procedures and problems involved in the procurement of industrial goods. Prereq., 255.

**341. FOREIGN TRADE (3)***Day*

A study of the theories of foreign trade and of the problems of concerns engaged in importing and exporting. Prereq., 255.

**346. FOREIGN MARKETS (2)***Day*

A study of foreign markets from the point of view of the American exporter. Prereq., 255.

**381. RESEARCH IN MARKETING (1 to 8)***Staff*

Prereq., 18 hrs. business administration, including 5 hrs. marketing, permission.

**391. SEMINAR IN MARKETING (2 to 4)***Staff*

Maximum credit in course, 10 hrs. Prereq., 18 hrs. business administration, including 5 hrs. marketing, permission.

**458. MARKETING MANAGEMENT (3)***Raymond*

Cases and problems involving management decisions concerning trade channels, pricing, product development, sales organization, and sales promotion. Prereq., 155, Mgt. 110.

**491. SEMINAR IN MARKETING (2 to 4)***Staff*

Maximum credit in course, 8 hrs. Prereq., permission.

**495. THESIS (As recommended by dept.)***Staff*

Prereq., permission.

**MATHEMATICS**

*Professors Butner, Denbow, Fishback (chairman), Goedcke*

*Associate Professors Jasper, Spring*

*Assistant Professors Eldridge, Golos, Mehr*

*Instructors Bakker, Baldwin, Collins, Duncan,*

*Goodrich, Irwin, Kappeman, Kars,*

*LeBoutillier, Lifsey, Lyle, Lyngé,*

*Shankar, Shannon, Vanden Eynden,*

*Walter, Wyzalek, Yamada*

The major requirement for the A.B. or B.S. degree is 14 hours in courses numbered above 102, exclusive of Math. 268, including at least two courses numbered above 300. Courses numbered 15, 16, 101, 102, 104, 207, 209, 268, and 301 are recommended as minimum preparation for secondary teachers. It is probable that in 1966-67 Math. 3, 14, and 15 will be replaced by a single 3-hour

course with no credit for students for whom it is a repetition of material studied in high school.

**1. ELEMENTARY ALGEBRA (3)***Staff*

A course for students with no high school algebra. Credit and points not counted toward degree. (Summer only.)

**2. EUCLIDEAN GEOMETRY (3)***Staff*

A course for students with no high school geometry. Prereq., 1, or 1 yr. high school algebra. Credit and points not counted toward degree. (Summer only.)

**3. COLLEGE ALGEBRA**

Exponents and radicals; quadratic equations; proportion and variations; binomial theorem; progressions; determinants; applications from the physical and social sciences and from business. Prereq., 2, or 1 yr. each in algebra and geometry in high school. (Each sem.)

**4. BASIC MATHEMATICS FOR BUSINESS ANALYSIS (3)***Staff*

Prereq., 3. Not open to students who have passed 16. (Each sem., 1966-67. To be discontinued thereafter.)

**7-8. FOUNDATIONS OF ELEMENTARY MATHEMATICS (3-3)***Staff*

Introduction to mathematical reasoning, structure of the number system with justification of the algorithms, introduction to informal geometry. Open to elementary education majors only. Prereq., high school algebra, plane geometry. (Each sem.)

**9. FUNDAMENTALS OF MATHEMATICS (3)***Staff*

An analysis of basic concepts of algebra. Not open to students who have had Math. 3, 14, or 15. Primarily for pre-medical and pre-dental students. Prereq., 2, or 1 yr. each in high school algebra and geometry. (1st sem., yearly.)

**10. FUNDAMENTALS OF MATHEMATICS (3)***Staff*

An introduction to the basic concepts of analytic geometry and calculus, and topics in modern mathematics. Not open to students who have had 16. Prereq., 3, or 9. (2nd sem., yearly.)

**11-12. FUNDAMENTAL CONCEPTS OF CALCULUS (3-3)***Staff*

Differential and integral calculus of algebraic, exponential, and logarithmic functions with supporting analytic geometry. For students in management, social, and biological sciences. Prereq., 3, or 2 yr. high school algebra and 1 yr. high school geometry.

**14. TRIGONOMETRY (3)**

Prereq., 9, or 3 with minimum grade of "C".  
(Each sem.)

**15. FRESHMAN MATHEMATICS (5)**

*Staff*  
Algebra and plane trigonometry. Not open to students who have had 3, 9, or 14. Prereq., 2, or 1 yr. each in high school algebra and geometry, or equivalent. (Each sem.)

**16. ANALYTIC GEOMETRY AND CALCULUS (5)**

*Staff*  
Functions and limits, differentiation and integration of algebraic forms, vectors, topics in analytic geometry (including conics), and differentiation of trigonometric functions. Prereq., 14, or 15, or qualification by exam. (Each sem.)

**101. ANALYTIC GEOMETRY AND CALCULUS (4)**

*Staff*  
Differentiation of logarithmic and transcendental functions, evaluation of integrals, limits and continuity, applications of derivatives and integrals, improper integrals, and polar coordinates. Prereq., 16. (Each sem.)

**102. ANALYTIC GEOMETRY AND CALCULUS (4)**

*Staff*  
Solid analytic geometry, partial differentiation, multiple integrals, infinite series, and expansion of functions .Prereq., 101. (Each sem.)

**104. ADVANCED MATHEMATICS OF BUSINESS (3)**

*Staff*  
Business applications of the calculus, linear systems and programming, decision models, mathematics of finance. Prereq., 16. (2nd sem., yearly.)

**207. INTRODUCTION TO MATHEMATICAL STATISTICS (3)**

*Butner, Goedcke*  
A beginning course in statistics; presentation and description of data, introduction to probability and sampling theory, with applications. Prereq., 16. (2nd sem., yearly.)

**209. COLLEGE GEOMETRY (3)**

*Staff*  
Brief review of elementary plane Euclidean geometry. Selected topics in axiomatics, modern Euclidean and non-Euclidean geometries. Prereq., 16. (Each sem.)

**215. ADVANCED APPLIED MATHEMATICS (3)**

*Staff*  
Ordinary differential equations and related topics. Prereq., 102. (Each sem.)

**216. ELEMENTARY COMPLEX ANALYSIS (2)**

*Staff*  
Selected topics from the theory of functions of a complex variable of importance in the engineering and physical sciences. Prereq., 215. (Each sem.)

**268. TEACHING OF MATHEMATICS IN HIGH SCHOOL (3)**

*Lifsey*  
An analysis of the basic ideas of algebra and geometry. Methods of presenting topics in these subjects to junior and senior high school students. Prereq., 209, Psych. 71. (Each sem.)

**301. ARITHMETICAL AND ALGEBRAIC SYSTEMS (3)**

*Golos, Lifsey*  
Properties and structures of number systems; selected topics from theory of equations and linear algebra. Prereq., 102, or with 102. (Each sem.)

**308. PROJECTIVE GEOMETRY (3)**

*Fishback*  
Prereq., 102. (2nd sem., 1966-67.)

**311. NUMERICAL ANALYSIS (3)**

*Goedcke, Irwin*  
An investigation of numerical methods for approximate solution of applied problems. Topics will include interpolation theory, curve fitting, approximate integration, and the numerical solution of differential equations. Prereq., 102. (1st sem., 1966-67.)

**313. VECTOR ANALYSIS (2)**

*Goedcke, Wyzalek*  
Prereq., 215. (1st sem., yearly.)

**314. FOURIER ANALYSIS AND PARTIAL DIFFERENTIAL EQUATIONS (2)**

*Shankar*  
Prereq., 215. (Each sem.)

**318. PRINCIPLES OF DIGITAL COMPUTER PROGRAMMING (3)**

*Irwin*  
Prereq., 311, or 215. (2nd sem., yearly.)

**321. MATRIX THEORY (3)**

*Eldridge, Spring*  
Matrix algebra and determinants, linear equations, vector spaces and linear transformations, characteristic equations, and quadratic forms. Prereq., 102. (1st sem., yearly.)

**322. INTRODUCTION TO MODERN ALGEBRA (3)**

*Eldridge, Spring*  
Elementary theory of groups, fields, and rings. Prereq., 301, or 321. (2nd sem., yearly.)

**331-332. THEORY OF STATISTICS (3-3)**  
*Butner, Mehr*  
 Probability, distributions of one and several variables, sampling theory, estimation of parameters, confidence intervals, analysis of variance, correlation and testing of statistical hypotheses. Prereq., 102. (Yearly.)

**341-342. ADVANCED CALCULUS (3-3)**  
*Wyzalek*  
 Critical treatment of limits, continuity, differentiation of functions of one and several variables, series, and theory of integration. Prereq., 102 for 341. (Yearly.)

**343. THEORY OF FUNCTIONS OF A COMPLEX VARIABLE I (3)**  
*Shankar*  
 Prereq., 215 or 341. (1st sem., yearly.)

**361. STUDIES IN MATHEMATICS (1 to 6)**  
*Staff*

Selected topics in mathematics are studied under the guidance of an instructor particularly interested in the field. Maximum credit, 6 hours. Prereq., 5 hours of 300-level courses and senior standing, or junior standing in Honors College, or permission of chairman.

**362. SELECTED TOPICS IN MATHEMATICS (3)**  
*Staff*

Maximum credit in course, 6 hours. Prereq., 102 and permission. (Each sem.)

**411. SPECIAL FUNCTIONS (3)**  
*Fishback, Shankar*

Basic theory of the special functions arising in advanced problems in mathematical physics. Prereq., 216 and 341, or 343, or the equivalent. (2nd sem., yearly.)

**423. MODERN ALGEBRA (3)**  
*Eldridge, Spring*

Groups with operators, ideals, unique factorization domains, ring and field extensions, Galois theory. Prereq., 322. (2nd sem., yearly.)

**444. THEORY OF FUNCTIONS OF A COMPLEX VARIABLE II (3)**  
*Shankar*

Prereq., 343. 2nd sem., 1966-67.)

**446. THEORY OF FUNCTIONS OF REAL VARIABLES (3)**  
*Wyzalek*

Prereq., 341. (2nd sem., yearly.)

**447. POINT SET TOPOLOGY (3)**  
*Eldridge*

An introduction to set theory and general topological spaces with an emphasis on the study of metric spaces. Prereq., 341. (1st sem., yearly.)

**495. THESIS (As recommended by dept.)**  
*Staff*  
 Prereq., permission.

## MEDICAL TECHNOLOGY

(See Zoology)

## MODERN LANGUAGES

French  
 German  
 Hausa  
 Italian  
 Russian  
 Spanish

Professors Flum, Krauss, Renkenberger

Associate Professors Cameron, Frink, LaJohn, O'Nan, Ziomek

Assistant Professors Carrier, Hammer

Instructors Adams, Bartlow, Bolen, Boggs, Borchette, Brogan, Burns, Conliffe, Cotton, Davis, Franks, Goepper, Ipacs, Kepler, Martello, Mitchell, Nieto, Pérez, Richardson, Silver, Smith, Straub, Thomas, Torres, Whalen

The major requirement for the A.B. degree is a minimum of 24 hours beyond 102. Specific course requirements are 201, 202, 209, 210, 213 and at least 9 hours at the 300 level. Students planning to do graduate work in any Romance Language are strongly urged to acquire a background of training in Latin.

## MODERN LANGUAGES

**265. TEACHING OF FOREIGN LANGUAGES (2)**  
*Staff*

Prereq., 102 in a foreign language.

## FRENCH

**1-2. BEGINNING FRENCH (4-4)**

*Staff*  
 (Completion after 2 yrs. h.s. French adds 8 hrs. to graduation requirement.) (Yearly.)

**101-102. INTERMEDIATE FRENCH (4-4)**

*Staff*  
 Prereq., 2 or 2 yrs. high school French. (Yearly.)

**201, 202. SURVEY OF FRENCH LITERATURE (3, 3)**

*Staff*  
 Prereq., 102 or 4 yrs. high school French. (Yearly.)

**203, 204. READINGS IN FRENCH LITERATURE (2, 2)**

*Staff*  
 Prereq., 102 or 4 yrs. high school French.

**209-210. COMPOSITION AND GRAMMAR REVIEW (3-3)**

*Staff*  
 Prereq., 102 or 4 yrs. high school French (Yearly.)

- 213. FRENCH CONVERSATION (3)** *Staff*  
 Prereq., 102 or 4 yrs. high school French.  
 (Each sem.)
- 215. FRENCH PHONETICS (2)** *Staff*  
 Prereq., 102. (As needed.)
- 220. FRENCH CIVILIZATION AND CULTURE (3)** *Staff*  
 Prereq., 102 or 4 yrs. high school French.
- 316. FRENCH RENAISSANCE (3)** *Staff*  
 Prereq., 6 hrs. at the 200 level. (1st sem., 1966-67.)
- 317. FRENCH CLASSICISM (3)** *Staff*  
 Prereq., 6 hrs. at the 200 level. (2nd sem., 1966-67.)
- 318. AGE OF ENLIGHTENMENT (3)** *Staff*  
 Prereq., 6 hrs. at 200 level. (1st sem., 1967-68.)
- 319. NINETEENTH CENTURY FRENCH LITERATURE (3)** *Staff*  
 Prereq., 6 hrs. at 200 level. (1st sem., 1967-68.)
- 320. CONTEMPORARY FRENCH LITERATURE (3)** *Staff*  
 Prereq., 6 hrs. at 200 level. (Yearly.)
- 351. ADVANCED COMPOSITION AND STYLE (2)** *Staff*  
 Prereq., 210 and 3 hrs. at 300 level. 1st sem., 1967-68.)
- 352. ADVANCED CONVERSATION AND PHONETICS (2)** *Staff*  
 Prereq., 213 and 3 hrs. at 300 level. (2nd sem., 1967-68.)
- 371, 372. ADVANCED FRENCH (1 to 3, 1 to 3)** *Staff*  
 Prereq., 3 hrs. at 300 level and consent of chairman. (As needed.)
- 399. BIBLIOGRAPHY AND RESEARCH PROBLEMS (2)** *Staff*  
 Prereq., 3 hrs. at 300 level. (As needed.)
- 401, 402. FRENCH FOR GRADUATE READING REQUIREMENT (3, 3)** *Staff*  
 Prereq., Grad. standing or permission. (As needed.)
- 421. COMPARATIVE ROMANCE PHILOLOGY (3)** *Staff*  
 (Yearly.)
- 422. ROMANCE PHILOLOGY (Old French) (3)** *Staff*  
 (1967-68.)
- 471, 472. READING AND RESEARCH (1 to 4, 1 to 4)** *Staff*
- 481, 482. SEMINAR (2, 2)** *Staff*
- 495. THESIS (As recommended by dept.)** *Staff*  
 Prereq., permission.
- GERMAN**
- 1-2. BEGINNING GERMAN (4-4)** *Staff*  
 (Completion after 2 yrs. h.s. German adds 8 hrs. to graduation requirement.) (Yearly.)
- 101-102. INTERMEDIATE GERMAN (4-4)** *Staff*  
 Prereq., 2 or 2 yrs. high school German. (Yearly.)
- 103. SCIENTIFIC GERMAN (4)** *Staff*  
 This course is intended especially for science majors and will fulfill the language requirement in lieu of 102. Prereq., 101 or 3 yrs. high school German. (2nd sem., yearly.)
- 201, 202. SURVEY OF GERMAN LITERATURE (3, 3)** *Staff*  
 Prereq., 102 or 4 yrs. high school German. (Yearly.)
- 203, 204. READINGS IN GERMAN LITERATURE (2, 2)** *Staff*  
 Prereq., 102 or 4 yrs. high school German. (1966-67.)
- 209-210. COMPOSITION AND GRAMMAR REVIEW (3-3)** *Staff*  
 Prereq., 102 or 4 yrs. high school German. (Yearly.)

<b>213. GERMAN CONVERSATION (3)</b>	<i>Staff</i>	<b>399. BIBLIOGRAPHY AND RESEARCH PROBLEMS (2)</b>	<i>Staff</i>
Prereq., 102 or 4 yrs. high school German.		Prereq., 3 hrs. at 300 level. (Given upon sufficient demand.)	
<b>220. GERMAN CIVILIZATION AND CULTURE (3)</b>	<i>Staff</i>	<b>401, 402. GERMAN FOR GRADUATE READING REQUIREMENT (3, 3)</b>	<i>Staff</i>
Prereq., 102 or 4 yrs. high school German.		Prereq., Grad. standing or permission. (Yearly.)	
<b>311, 312. NINETEENTH CENTURY GERMAN DRAMA (3, 3)</b>	<i>Staff</i>	<b>421-422. GERMAN PHILOLOGY (Middle High German) (3-3)</b>	<i>Staff</i>
Prereq., 6 hrs. at 200 level. (1967-68.)		(1966-67.)	
<b>313. CLASSICAL GERMAN DRAMA (3)</b>	<i>Staff</i>	<b>471, 472. READING AND RESEARCH (1 to 4, 1 to 4)</b>	<i>Staff</i>
Prereq., 6 hrs. at 200 level. (1st sem., 1966-67.)			
<b>314. GOETHE'S FAUST (3)</b>	<i>Staff</i>	<b>481, 482. SEMINAR (2, 2)</b>	<i>Staff</i>
Prereq., 6 hrs. at 200 level. (2nd sem., 1966-67.)			
<b>319, 320. NINETEENTH CENTURY GERMAN PROSE (3, 3)</b>	<i>Staff</i>	<b>495. THESIS (1 to 6)</b>	<i>Staff</i>
Prereq., 6 hrs. at 200 level. (1967-68.)		Prereq., permission.	
<b>321. CONTEMPORARY GERMAN PROSE (3)</b>	<i>Staff</i>		
Prereq., 6 hrs. at 200 level. (2nd sem., 1966-67.)			
<b>323. GERMAN LYRICS AND BALLADS (3)</b>	<i>Staff</i>	<b>301, 302. INTRODUCTION TO SPOKEN HAUSA (4, 4)</b>	<i>Staff</i>
Prereq., 6 hrs. at 200 level. (1st sem., 1967-68.)		Semi-intensive introduction to the spoken language. Emphasis on oral drills with native informant, supplemented by grammar explanation with linguist. Prereq., French 102 or equivalent, or permission of instructor.	
<b>326. TWENTIETH CENTURY GERMAN DRAMA (3)</b>	<i>Staff</i>		
Prereq., 6 hrs. at 200 level. (2nd sem., 1966-67.)			
<b>327. BAROQUE AND ENLIGHTENMENT (3)</b>	<i>Staff</i>	<b>ITALIAN</b>	
Prereq., 6 hrs. at 200 level. (2nd sem., 1967-68.)			
<b>351. ADVANCED COMPOSITION AND STYLE (2)</b>	<i>Staff</i>	<b>1-2. BEGINNING ITALIAN (4-4)</b>	<i>Staff</i>
Prereq., 210 and 3 hrs. at 300 level. (1st sem., 1967-68.)		(Completion after 2 yrs. h.s. Italian adds 6 hrs. to graduation requirement.) (Yearly.)	
<b>352. ADVANCED CONVERSATION AND PHONETICS (2)</b>	<i>Staff</i>	<b>101-102. INTERMEDIATE ITALIAN (4-4)</b>	<i>Staff</i>
Prereq., 213 and 3 hrs. at 300 level. (2nd sem., 1967-68.)		Prereq., Italian 2 or 2 yrs. high school Italian. (Yearly.)	
<b>371, 372. ADVANCED GERMAN (1 to 3, 1 to 3)</b>	<i>Staff</i>	<b>RUSSIAN</b>	
Prereq., 3 hrs. at 300 level and consent of chairman. (As needed.)			
		<b>1-2. BEGINNING RUSSIAN (4-4)</b>	<i>Staff</i>
		(Completion after 2 years. h.s. Russian adds 8 hrs. to graduation requirement. (Yearly.)	

- 101-102.** INTERMEDIATE RUSSIAN (4-4) *Staff*  
Prereq., 2 or 2 yrs. high school Russian. (Yearly.)
- 105.** SCIENTIFIC RUSSIAN (3) *Staff*  
Prereq., 102 or 4 yrs. high school Russian. (1st sem., 1966-67.)
- 106.** HISTORY OF THE RUSSIAN LANGUAGE (3) *Staff*  
Prereq., 102 or 4 yrs. high school Russian. (2nd sem., 1966-67.) *Staff*
- 201, 202.** INTRODUCTION TO RUSSIAN LITERATURE (3, 3)  
Prereq., 102 or 4 yrs. high school Russian. (Yearly.)
- 205, 206.** READINGS IN SOVIET LITERATURE (2, 2) *Staff*  
Prereq., 102 or 4 yrs. high school Russian. (Yearly.)
- 209-210.** COMPOSITION AND GRAMMAR REVIEW (3-3) *Staff*  
Prereq., 102 or 4 yrs. high school Russian. (Yearly.)
- 213.** RUSSIAN CONVERSATION (3) *Staff*  
Prereq., 102 or 4 yrs. high school Russian.
- 220.** RUSSIAN CIVILIZATION AND CULTURE (3) *Staff*  
Prereq., 102 or 4 yrs. high school Russian.
- 319, 320.** NINETEENTH CENTURY RUSSIAN POETRY (3, 3) *Staff*  
Pushkin, Lermontov. Prereq., 4 hrs. at 200 level. (1966-67.)
- 321, 322.** NINETEENTH CENTURY RUSSIAN NOVEL (3, 3) *Staff*  
Gogol, Turgenev, Tolstoy, Dostoevsky. Prereq., 4 hrs. at 200 level. (1967-68.)
- 371, 372.** ADVANCED RUSSIAN (1 to 3, 1 to 3) *Staff*  
Prereq., 3 hrs. at 300 level and consent of chairman.

**SPANISH**

- 1-2.** BEGINNING SPANISH (4-4) *Staff*  
Completion after 2 yrs. h.s. Spanish adds 8 hrs. to graduation requirement. (Yearly.)
- 101-102.** INTERMEDIATE SPANISH (4-4) *Staff*  
Prereq., 2 or 2 yrs. high school Spanish. (Yearly.)
- 201, 202.** SURVEY OF SPANISH LITERATURE (3, 3) *Staff*  
Prereq., 102 or 4 yrs. high school Spanish (Yearly.)
- 203, 204.** READINGS IN SPANISH LITERATURE (2, 2) *Staff*  
Prereq., 102 or 4 yrs. high school Spanish (1966-67.)
- 205, 206.** READINGS IN SPANISH-AMERICAN LITERATURE (2, 2) *Staff*  
Prereq., 102 or 4 yrs. high school Spanish. (1967-68.)
- 209-210.** COMPOSITION AND GRAMMAR REVIEW (3-3) *Staff*  
Prereq., 102 or 4 yrs. high school Spanish. (Yearly.)
- 213.** SPANISH CONVERSATION (3) *Staff*  
Prereq., 102 or 4 yrs. high school Spanish. (Each sem.)
- 215.** SPANISH PHONETICS (2) *Staff*  
Prereq., 102 or 4 yrs. high school Spanish. (1st sem., yearly.)
- 220.** SPANISH CIVILIZATION AND CULTURE (3) *Staff*  
Prereq., 102 or 4 yrs. high school Spanish. (2nd sem., 1966-67.)
- 221.** SPANISH-AMERICAN CIVILIZATION AND CULTURE (3) *Staff*  
Prereq., 102 or 4 yrs. high school Spanish. (2nd sem., 1967-68.)
- 301.** ROMANTICISM AND COSTUMBRISMO (3) *Staff*  
Prereq., 6 hrs. at 200 level. (1st sem.; 1966-67.)

- 302. NINETEENTH CENTURY SPANISH NOVEL (3)** *Staff*  
 Prereq., 6 hrs. at 200 level. (2nd sem., 1966-67.)
- 305. TWENTIETH CENTURY SPANISH DRAMA (3)** *Staff*  
 Prereq., 6 hrs. at 200 level. (2nd sem., 1967-68.)
- 306. THE GENERATION OF 98 AND AFTER (3)** *Staff*  
 Prereq., 6 hrs. at 200 level. (1st sem., 1967-68.)
- 307. SPANISH LITERATURE SINCE THE CIVIL WAR (3)** *Staff*  
 Prereq., 6 hrs. at 200 level. (2nd sem., 1967-68.)
- 311, 312. LATIN AMERICAN LITERATURE (3, 3)** *Staff*  
 Prereq., 6 hrs. at 200 level. (1967-68.)
- 320. NOVEL OF THE MEXICAN REVOLUTION (2)** *Staff*  
 Prereq., 6 hrs. at 200 level. (1st sem., 1966-67.)
- 325. CONTEMPORARY LATIN AMERICAN LITERATURE (2)** *Staff*  
 Prereq., 6 hrs. at 200 level. (2nd sem., 1966-67.)
- 351. ADVANCED COMPOSITION AND STYLE (2)** *Staff*  
 Prereq., 210 and 3 hrs. at 300 level. (1st sem., 1966-67.)
- 352. ADVANCED CONVERSATION AND PHONETICS (2)** *Staff*  
 Prereq. 213 and 3 hrs. at 300 level. (2nd sem., 1966-67.)
- 399. BIBLIOGRAPHY AND RESEARCH PROBLEMS (1 to 2)** *Staff*  
 Prereq., 3 hrs. at 300 level. (On demand.)
- 401, 402. SPANISH FOR GRADUATE READING REQUIREMENT (3, 3)** *Staff*  
 Prereq., Grad. standing or permission. (Yearly.)
- 405. DRAMA OF THE GOLDEN AGE (3)** *Staff*  
 Prereq., 4 hrs. at 300 level.
- 406. NOVEL OF THE GOLDEN AGE (3)** *Staff*  
 Prereq., 4 hrs. at 300 level.
- 408. CERVANTES (2)** *Staff*  
 Prereq., 4 hrs. at 300 level.
- 409. MEDIEVAL SPANISH LITERATURE (2)** *Staff*  
 Prereq., 2 hrs. at 300 level.
- 421. COMPARATIVE ROMANCE PHILOLOGY (3)** *Staff*  
 (Yearly.)
- 422. ROMANCE PHILOLOGY (Old Spanish) (3)** *Staff*  
 (1966-67.)
- 471, 472. READING AND RESEARCH (1 to 4, 1 to 4)** *Staff*
- 495. THESIS (As recommended by dept.)** *Staff*  
 Prereq., permission.

## MUSIC

Applied Music  
 History and Literature  
 Theory and Composition  
 Music Education

Professor Ahrendt (director)  
 Associate Professors Brophy, Conkling, Hall,  
 Jennings, Minelli, Peterson, Stephenson  
 Assistant Professors Boxberger, Harbachick,  
 Hodkinson, Kaneshige, G. Katz, Longstreet,  
 Merritt, Perris, R. D. Smith, Sanou, Suess,  
 Thackrey, Wickstrom, Witzler, Wurtz  
 Instructors Eberhard, Geary, S. Katz, Schroeder  
 Lecturer Henderson

## APPLIED MUSIC

Private instructional fee for all applied music (piano, voice, organ, strings, woodwind, brass, percussion), \$25 a semester hour.

(Note: A description of the proficiency requirements for applied music may be secured from the School of Music.)

**VOICE (1 to 3)**  
*Harbachick, S. Katz, Merritt, Peterson*  
 Prereq., permission.

**PIANO (1 to 3)**  
*Geary, E. Jennings, G. Katz, Longstreet*  
 Prereq., permission.

HARP (1 to 3)	<i>L. Jennings</i>	66-67. CLASS PIANO (1-1)	<i>Eberhard</i>
Prereq., permission.		Prereq., permission.	
ORGAN (1 to 3)	<i>Wickstrom, Stuber</i>	251-252. CHAMBER MUSIC (1-1)	<i>Staff</i>
Prereq., permission.		Participation in the playing of the standard chamber music literature. Prereq., permission. Maximum credit in course, 6 hrs.	
STRINGED INSTRUMENTS: Violin, Viola, Violoncello, Bass (1 to 3)	<i>Conkling, Sanov</i>	273. CONDUCTING (2)	<i>Sanov</i>
Prereq., permission.		Fundamentals of conducting, accompanied by individual practice in conducting. For music majors only; open to others by permission. Prereq., 104, 106.	
WOODWIND INSTRUMENTS: Flute, Oboe, Clarinet, Bassoon (1 to 3)	<i>Hodkinson, Witzler</i>	331. PIANO ENSEMBLE (1)	<i>Staff</i>
Prereq., permission.		Participation in the playing of original works or arrangements for two pianos. Prereq., permission.	
BRASS INSTRUMENTS: Trumpet, Baritone, Horn, Trombone, Tuba (1 to 3)	<i>Brophy, Smith</i>	332. VOCAL ENSEMBLE (1)	<i>Staff</i>
Prereq., permission.		Participation in the singing of standard madrigal and motet literature. Maximum credit in course, 4 hrs. Prereq., permission.	
PERCUSSION INSTRUMENTS (1 to 3)	<i>Minelli</i>	375. ADVANCED CONDUCTING (2)	<i>Sanov, Perris</i>
Prereq., permission.		(Spring term only.) a. INSTRUMENTAL EMPHASIS (1967) b. CHORAL EMPHASIS (1966)	
BRASS CHOIR (1)	<i>Brophy</i>	Advanced reading and conducting of instrumental and choral literature, including standard and new works practical for school performance. The two sections are offered in alternate years. Prereq., 273, permission.	
UNIVERSITY BANDS (1)	<i>Brophy, Minelli</i>	399. APPLIED MUSIC a, b, c, d, e, f (1 to 4)	<i>Staff</i>
Open to men and women students. Prereq., permission.		Open to graduate students only, in the minor area. Maximum credit in course, 4 hrs.	
UNIVERSITY CHORUS (1)	<i>Wickstrom, Stuber</i>	a. VOICE b. PIANO c. STRINGED INSTRUMENTS d. WOODWIND INSTRUMENTS e. BRASS INSTRUMENTS f. PERCUSSION INSTRUMENTS	
Open to men and women students. Prereq., permission.			
UNIVERSITY SINGERS (1)	<i>Wurtz</i>	431. VOICE (1 to 4)	<i>Harbachick, S. Katz, Merritt, Peterson</i>
Open to men and women students. Prereq., permission.		Maximum credit in course, 16 hrs. Prereq., permission.	
UNIVERSITY SYMPHONY ORCHESTRA (1)	<i>Ahrendt, Sanov</i>	433a. PIANO (1 to 4)	<i>Jennings, G. Katz, Longstreet, Geary</i>
Open to men and women students. Prereq., permission.		Maximum credit in course, 16 hrs. Prereq., permission.	
MEN'S GLEE CLUB (1)	<i>Peterson</i>	433b. ORGAN (1 to 4)	<i>Wickstrom, Stuber</i>
Prereq., permission.		Maximum credit in course, 16 hrs. Prereq., permission.	
WOMEN'S GLEE CLUB (1)	<i>Merritt</i>		
Prereq., permission.			

**435. ENSEMBLE (1 to 4)***Staff*

Maximum credit in course, 16 hrs., Prereq., permission.

**437. STRINGED INSTRUMENTS (1 to 4)***Conkling, Sanov*

Maximum credit in course, 16 hrs., Prereq., permission.

**438. BRASS INSTRUMENTS (1 to 4)***Brophy, Smith*

Maximum credit in course, 16 hrs., Prereq., permission.

**439. WOODWIND INSTRUMENTS (1 to 4)***Hodkinson, Witzler*

Maximum credit in course, 16 hrs., Prereq., permission.

**495. RECITAL (1 to 4)***Staff*

A full-length public recital, a recording of which will be filed in the library, in lieu of a thesis. Prereq., permission.

**MUSIC HISTORY AND LITERATURE****5. MUSIC APPRECIATION (2)***Perris, Thackrey*

The form and meaning of music masterpieces. Not open to music majors or those who have received credit for F.A. 123-124.

**123-124. HISTORY OF MUSIC (3-3)***Suess*

Not open to students who have received credit in Mus. 5. Prereq., 18 or permission.

**337. THE LITERATURE OF VOCAL MUSIC (2)***Wortman*

Prereq., F.A. 124.

**338. THE LITERATURE OF ORCHESTRAL MUSIC (2)***Hall, Hodkinson, Kaneshige*

Prereq., F.A. 124.

**339. THE EVOLUTION OF THE OPERA (2)***Wortman*

Prereq., F.A. 124.

**340. THE LITERATURE OF PIANO MUSIC (2)***Jennings*

The development of the instrument, the primary forms adapted to it, and the representative composers. Prereq., F.A. 124.

**344. CONTEMPORARY MUSIC (3)***Suess*

Music as an artistic expression of our time; a study of the various styles since c.1900. Prereq., F.A. 124, permission.

**401-402. MUSIC LITERATURE (3-3)***Suess*

Prereq., F.A. 124, permission.

**441. MUSIC OF THE MEDIEVAL AND RENAISSANCE PERIODS (3)***Wortman*

Music as an artistic expression of the Medieval and Renaissance periods; a history of the evolution of musical styles up to c.1600. Prereq., F.A. 124, permission.

**442. MUSIC OF THE BAROQUE PERIOD (3)***Suess*

Music as an artistic expression of the Baroque period; a history of the evolution of musical styles c.1600-c.1750. Prereq., F.A. 124, permission.

**443. MUSIC OF THE CLASSIC AND ROMANTIC PERIODS (3)***Wortman*

Music as an artistic expression of the Classic and Romantic periods; a history of the evolution of music styles c.1750-1900. Prereq., F.A. 124, permission.

**495. THESIS (As recommended by dept.)***Staff*

Prereq., permission.

**THEORY AND COMPOSITION****3-4. THEORY (3-3)***Hall, Hodkinson, Kaneshige*

A beginning study of the melodic, harmonic, and rhythmic principles of music and its notation. 5 hrs. a week.

**103-104. DICTATION AND SIGHT SINGING (2)***Hall, Hodkinson, Kaneshige*

Should be taken concurrently with 105-106. 3 hrs. a week. Prereq., 4 with a minimum grade of C.

**105-106. HARMONY (3-3)***Hall, Hodkinson, Kaneshige*

Harmonization of melodies and figured basses, both written and at the keyboard. 4 hrs. a week. Prereq., 4 with a minimum grade of C.

**201-202. ANALYSIS AND FORM (2-2)***Kaneshige*

Harmonic and structural analysis of music composition. Prereq., 106.

**233. INSTRUMENTATION (3)***Minelli*

The various band instruments from the standpoint of their range and band uses. Arranging for small ensembles. Prereq., 106.

**307-308. ARRANGING AND SCORING FOR BANDS (2-2)***Minelli*

Prereq., 104, 233.

**313-314. ORCHESTRATION (2-2)***Ahrendt, Hodkinson*

Scoring for small, medium, and full orchestra. Prereq., 104, 106.

**315-316. ADVANCED HARMONY (2-2)***Hall*

The evolution of harmony to the present, including the new methods of chord structure in modern harmony. Prereq., 104, 106.

**317-318. SIXTEENTH CENTURY COUNTERPOINT (2-2)***Hodkinson*

Based on the practices and styles of Palestrina. Prereq., 104, 106.

**319-320. COMPOSITION (2-2)***Ahrendt*

Original writing in the smaller forms. Prereq., 104, 106.

**367. COUNTERPOINT (2)***Hall*

Counterpoint in two, three, or four parts. Study of the invention, imitation and fugue. Prereq., 104, 106.

**368. ADVANCED FUGUE (2)***Hall*

Based on the eighteenth century style of Bach. Prereq., 318.

**371-372. COMPOSITION (2-2)***Ahrendt*

Original writing in the larger forms. Prereq., 320.

**381. RESEARCH IN MUSIC (1 to 4)***Staff*

Prereq., 30 hrs. or the equivalent, permission.

**403. SEMINAR IN MUSIC (1)***Staff*

Reports on research by students or faculty, for discussion. Required of all graduate students enrolled in the School of Music. Required credit in course, 2 hrs. Prereq., permission (Yearly.)

**407-408. EVOLUTION OF HARMONIC THEORY (2-2)***Hall*

A study of the writings of the most important music theorists from the tenth century to the present. Prereq., 106, F.A. 124, 1 yr. of Cpt., 202, 314, 316.

**419. MODERN COUNTERPOINT (2)***Hall*

Based on the techniques of recent and contemporary composers. Prereq., 318.

**425-426. COMPOSITION (2-2)***Ahrendt*

Extensive writing in the larger vocal and instrumental forms. Prereq., 372.

**427-428. ADVANCED ORCHESTRATION (2-2)***Ahrendt*

Problems in scoring original works for the modern symphony orchestra. Satisfactory scores are performed by the University Symphony Orchestra. Prereq., 314, 318.

**495. THESIS (As recommended by dept.)***Staff*

Prereq., permission.

**MUSIC EDUCATION****72. MUSIC FUNDAMENTALS (2)***Staff*

3 hrs. a week. For elementary education majors only.

**261. STRING TECHNIQUES AND MATERIALS (2)***Conkling, Sanov***a. BEGINNING STRING CLASS****b. ADVANCED STRING CLASS.**

3 hrs. a week. Maximum credit in course, 4 hrs. The Department may recommend that Music 261 be substituted for 2 hours of applied strings.

**262. MUSIC FOR THE CLASSROOM TEACHER (2)***Crews, Henderson, Perris, Stephenson*

Open to elementary classroom teachers only. Prereq., 72.

**263. WIND AND PERCUSSION TECHNIQUES AND MATERIALS (2)***Staff*

Maximum credit in course, 6 hrs. 5 labs.

**265. VOCAL TECHNIQUES AND MATERIALS (2)***Perris, Stephenson*

Prereq., 273.

**266. TEACHING OF MUSIC IN THE ELEMENTARY GRADES (3 to 6)***Wurtz Henderson**Henderson, Wurtz*

Music materials and methods for elementary music majors only. Prereq., 106.

**267. SUPERVISION AND ADMINISTRATION OF MUSIC IN THE PUBLIC SCHOOLS (3)***Perris, Stephenson*

(For music majors only.) Prereq., with Ed. 229.

**268. GENERAL MUSIC FOR ADOLESCENTS AND ADULTS (3)***Wurtz*

For music majors only. Prereq., 106.

**269. SOCIAL AND RECREATIONAL INSTRUMENTS AND MATERIALS (2)***Boxberger*

Prereq., permission.

**376a,b,c. MUSIC WORKSHOP (1 to 4) Staff**  
 Maximum credit in course, 6 hrs.  
 a. MUSIC CLINIC-WORKSHOP (Summer only.)  
 b. OPERA WORKSHOP  
 c. ELEMENTARY MUSIC WORKSHOP (Summer only.)

**470. CONTEMPORARY TRENDS IN MUSIC EDUCATION (2)** *Perris, Stephenson*  
 Prereq., permission.

**471. PROBLEMS IN THE SUPERVISION OF VOCAL MUSIC (2)** *Perris, Stephenson*  
 2 lec.; lab as required. Prereq., 265, 266, 267, 2 hrs. observation, 4 hrs. student teaching.

**472. PROBLEMS IN THE SUPERVISION OF INSTRUMENTAL MUSIC (3)** *Minelli*  
 2 lec.; lab as required. Prereq., 261, 263, 2 hrs. observation, 4 hrs. student teaching.

**473. EXPERIMENTAL STUDIES IN MUSIC (3)** *Boxberger*  
 An introduction to research in music and music education with emphasis on experimental studies. Prereq., permission.

**495. THESIS (As recommended by dept.)** *Staff*  
 Prereq., permission.

## MUSIC THERAPY

**274. CLINICAL EXPERIENCE I (1)** *Boxberger*  
 Orientation to, observations of, and selected experiences in hospitals. Credit, without grade, upon satisfactory completion.

**374. PSYCHOLOGICAL FOUNDATIONS OF MUSIC (3)** *Boxberger*  
 The extent and nature of psychological investigations bearing upon composition, performance, and education in the field of music. Prereq., permission.

**377. BACKGROUND OF MUSIC THERAPY (2)** *Boxberger*  
 A study of the theoretical and experimental bases for the influence of music on behavior. Permission.

**379. MUSIC THERAPY (2)** *Boxberger*  
 A study of the uses of music in therapy. Prereq., 377, permission.

**380. CLINICAL EXPERIENCE II (2)** *Boxberger*  
 Six months as a full-time music therapy intern in an approved psychiatric hospital, served after completion of the senior year. Prereq., completion of senior year in music therapy. Credit, without grade, upon satisfactory completion.

## PHILOSOPHY

*Distinguished Professor Organ  
 Associate Professors Grean, Nosco, Wieman (chairman)*

*Assistant Professors Kurtzman, Ruchti, Rudolph, Zweig*

*Instructors Rickert, Rogers*

The major requirement for the A.B. degree consists of a minimum of 24 hours, including 110, 221, 222, and at least three courses in the 300 group.

### 1. PRINCIPLES OF REASONING (3)

*Staff*  
 The use of evidence in establishing reliable conclusions. Not open to juniors and seniors. (Each sem.)

### 2. MORAL PHILOSOPHIES (3)

*Grean, Rudolph*  
 Types of ethical theory, the bases of moral decision, and the nature of values. Not open to juniors and seniors. (Each sem.)

### 103. OLD TESTAMENT THOUGHT (3)

*Grean, Nosco*  
 The background and development of the Old Testament; its philosophical, moral, and religious significance. (1st sem.)

### 104. NEW TESTAMENT THOUGHT (3)

*Nosco, Grean*  
 The background and development of the New Testament; the philosophical, moral, and religious significance of the beliefs of Jesus, Paul, and the early Church. (2nd sem.)

### 107. HISTORY OF RELIGIONS: FAR EAST (3)

*Nosco, Organ*  
 Primitive religion, Hinduism, Buddhism, Taoism, Confucianism, and Shinto. (1st sem.)

### 108. HISTORY OF RELIGIONS: NEAR EAST (3)

*Nosco, Organ*  
 Nature of religion, Greek, Egyptian, Babylonian, Zoroastrianism, Judaism, Christianity, and Islam. (2nd sem.)

### 109. LOGIC (3)

*Ruchti*  
 An introduction to the techniques of modern symbolic logic. (Each sem.)

**110. INTRODUCTION TO PHILOSOPHY (3)***Staff*

An analysis of typical philosophical problems arising in the study of nature, society, and religion for the purpose of developing a thoughtful and consistent intellectual perspective.

**117. SOCIAL PHILOSOPHY (2)***Murphree*

Basic types of social and political philosophies, classical and modern. (1st sem.)

**201. ETHICS (3)***Rudolph*

A comparison of theories of the right and the good which enter into contemporary thought. (Each sem.)

**206. PHILOSOPHY OF SCIENCE (3)***Ruchti, Zweig*

Basic concepts common to the various sciences. Prereq., 109. (2nd sem.)

**212. AMERICAN PHILOSOPHY (2)***Murphree*

Begins with transcendentalism and includes pragmatism, naturalism, and idealism. Prereq., 110. (1st sem.)

**221. HISTORY OF WESTERN PHILOSOPHY:  
ANCIENT AND MEDIEVAL (3)***Organ*

Significant ideas of representative philosophers from 600 B.C. to 1600 A.D. (1st sem.)

**222. HISTORY OF WESTERN PHILOSOPHY:  
MODERN (3)***Wieman*

Descartes to Kant. (2nd sem.)

**302. AESTHETICS (3)***Rickett*

Selected theories of the nature of art and aesthetic experience and the relation of art to other aspects of human culture. Prereq., 6 hrs. (2nd sem.)

**304. CONTEMPORARY SOCIAL PHILOSOPHY  
(2)***Murphree*

Prereq., 6 hrs., or 3 hrs. and 6 hrs. of social science.

**305. THEORY OF KNOWLEDGE (3)***Ruchti*

A critical examination of various views of what knowledge is and how it is attained. Prereq., 6 hrs. (1st sem.)

**308. EASTERN PHILOSOPHY (2)***Organ*

Selected philosophers and systems of philosophy of India and China. Prereq., 6 hrs., including 107. (2nd sem.)

**310. PRAGMATISM (2)***Murphree*

Peirce, James, Dewey, Prereq., 6 hrs. (2nd sem.)

**311. METAPHYSICS (2)***Wieman*

Basic assumptions underlying different conceptions of the world with special attention to materialism, formism, idealism, and contextualism. Prereq., 6 hrs. (1st sem.)

**315. PHILOSOPHY OF RELIGION (2)***Grean*

Contemporary thought on the nature of religion, religious symbolism, and the relation of religion and culture. Prereq., 6 hrs. (1st sem.)

**317. CONTEMPORARY PHILOSOPHY (3)***Zweig*

Modern positivism and linguistic analysis. Prereq., 6 hrs. (1st sem.)

**318. CONTEMPORARY ETHICAL THEORY (3)***Kurtzman, Zweig*

Significant current literature in selected topics of moral philosophy. Prereq., 6 hrs. (2nd sem.)

**321. PLATO (2)***Wieman*

Prereq., 6 hrs.

**322. ARISTOTLE (2)***Organ*

Prereq., 6 hrs.

**325. PHILOSOPHY OF CULTURE (3)***Rudolph*

The unity and interrelationship of art, religion, science, and common sense; man as a culture-creating being. Prereq., 6 hrs. (2nd sem.)

**331. CONTINENTAL IDEALISM (2)***Rogers*

Kant, Schelling, and Hegel. Prereq., 6 hrs. (1st sem.)

**333. EXISTENTIALISM (2)***Rudolph*

The development of existentialism from Kant through Schopenhauer to Camus. Prereq., 6 hrs.

**341. LOGICAL THEORY (3)***Ruchti*

Axiomatic formalization of logic, mathematical proof, and topics in metalogic. Prereq., 109 or 3 hrs. math. beyond 102. (2nd sem.)

**391. SEMINAR IN PHILOSOPHY (1 to 3)***Staff*

Selected problems. Maximum credit in course, 6 hrs. Prereq., 15 hrs. (Each sem.)

**495. THESIS (As recommended by dept.)***Staff*

Prereq., permission.

## PHOTOGRAPHY

*Assistant Professor Truxell*

*Lecturers Allen, J. Anderson, White (chairman)*

### 77-78. BASIC PHOTOGRAPHY (3-3)

*Allen*

1 lec., 4 lab.

### 133. BASIC NEWS PHOTOGRAPHY (3)

*Truxell*

Introduction to the camera and the visual image. Experience in basic techniques and practices adaptable to news reporting. (Not open to photography majors.) 1 lec., 4 lab.

### 377-378. PORTRAITURE (3-3)

*Truxell*

Traditional and experimental approaches to portraying the human face, the human figure in fashion and the dance, and certain situations dominated by people. Prereq., 144, 146 or permission.

### 379-380. COMMERCIAL AND ILLUSTRATIVE PHOTOGRAPHY (3-3)

*White*

Studio and location work in commercial, advertising, industrial, and architectural photography. Introduction to problems of studio operation and free-lance photography. 1 lec., 4 lab. Prereq., 378 or permission.

### 251-252. NEWSPAPER AND MAGAZINE PHOTOGRAPHY (3-3)

*Truxell*

Photographic techniques for newspaper picture reporting, including engraving problems, ethics, libel, and the law; introduction to the picture story and related problems. 1 lec., 4 lab. Prereq., 144, 146 or permission.

### 261-262. MOTION PICTURE PRODUCTION (5-5)

*Anderson*

Motion picture structural theories, scripting approaches, camera techniques, editing and laboratory methods, sound, production practices, viewing and criticism of films. Intensive exercise as an individual film maker in the production of several short motion pictures. 2 lec., 8 lab. Prereq., 144, 146, or permission.

### 143-144. PHOTOGRAPHIC PROCESS (3-3)

*White*

History of photographic processes, photographic optics, photochemistry, sensitometry, photographic printing processes, and mechanical reproduction methods. 3 lec. Prereq., 78.

### 145-146. WORKSHOP IN PHOTOGRAPHY (3-3)

*Allen*

Individual practice in basic problems of photographic design and technique. 6 lab. Prereq., 78 or permission.

### 381. PROBLEMS IN PHOTOGRAPHY (3)

*Staff*

Individual study and practice in a specialized phase of photography under instructor's supervision. Maximum credit in any one phase or combination of phases, 12 hrs. 6 lab.

- a. INDIVIDUAL SELECTION OF APPROVED PROBLEMS IN PHOTOGRAPHIC DESIGN, TECHNIQUE, OR PRACTICE. 6 lab. Prereq., 377.
- b. ADVANCED THEORY AND PRACTICE IN PICTURE STORIES AND THEIR PRODUCTION. 6 lab. Prereq., 252, 377 or permission.
- c. ADVANCED MOTION PICTURE PRODUCTION. 6 lab. Prereq., 262 or permission.
- d. SPECIAL PROBLEMS IN COLOR PHOTOGRAPHY. 6 lab. Prereq., 391.

### 391-392. COLOR PHOTOGRAPHY (5-5)

*White*

Theory of color photography, practice with color transparency materials, direct separations, separations from transparencies, masking, color printing. 1 lec., 8 lab. Prereq., 378, permission.

### 481. RESEARCH IN PHOTOGRAPHY (1 to 4)

*Staff*

Maximum credit in course, 8 hrs. Prereq., 20 hrs., including 381, permission.

### 495. THESIS (As recommended by dept.)

*Staff*

Prereq., permission.

### 496. STUDIO THESIS (2 to 4)

*Staff*

Prereq., permission.

## PHYSICAL EDUCATION AND INTERCOLLEGIATE ATHLETICS

*Professors Trepp, Miller, Mason*

*Associate Professors LaTourrette, Nessley, Rhoads, Rohr, Widdoes, Blosser, Hess, Wren, Snyder, Phillips*

*Assistant Professors Gillespie, Richey, Huntsman, McComb, O'Neal, Kappes, Schleicher, Heffelfinger, Wilkinson*

*Instructors Gilders, Hart, Jacoby, Bandy, Wagner, Borders, Jones, Simon, Smith, Nelson, Wolfert, Ellwood, Dean, Stenlund*

*Visiting Lecturer Brown*

ROHR, director of the division; NESSLEY, associate director of the division; WREN, assistant director of intercollegiate athletics and head baseball coach; MASON, chairman, graduate program, teacher education; TREPP, chairman, major curriculum, health education; RHOADS, intramural athletics men; WIDDODES, sports, tennis coach; O'NEAL, recreation; HUNTSMAN, head track coach, teacher education; GILDERS, aquatics, men; SNYDER, head basketball coach; BLOSSER, head golf coach, freshman basketball coach; HESS, head football coach; HEFFELFINGER, football; RICHEY, football; KAPPES, football; ELL-

WOOD, football; DEAN, football; McCOMB, ice hockey and soccer coach, ice skating; SCHLEICHER, teacher education, wrestling coach; HART, athletic trainer; WAGNER, freshman football and baseball coach; JACOBY, supervising critic, Putnam School; BANDY, sports, assistant basketball coach; WILKINSON, teacher education, gymnastics; NELSON, aquatics; WOLFERT, assistant athletic trainer; STENLUND, sports, assistant track coach.

MILLER, chairman women's program; BORDER, dance; BROWN, field hockey; GILLESPIE, health education; JONES, gymnastics, LaTOURRETTE, recreation; PHILLIPS, intramural sports, teacher education; SIMON, aquatics; SMITH, extramural sports.

SCHUMACHER, business manager, intercollegiate athletics; MORGAN, sports information director; KEMPTON, assistant sports information director.

## SERVICE COURSES

The physical education program is designed for the diversified interests and abilities of men and women in the University. Students may elect freely from those courses which appeal to them but should avoid repetition of one sport or activity for the fulfillment of their physical education requirement.

The asterisk (\*) indicates those courses which may be repeated once. For women this may be done by permission. No student may use more than two credit hours in the same sport or activity toward a degree requirement.

For a detailed statement of the university requirement in physical education refer to the Physical Education and Athletics section of the catalog.

## MEN

### 1. 2. TEAM SPORTS (or Basic Skills) (1, 1)

*Blosser, Staff*

Activities adaptable to team and league play.

### 11. VOLLEYBALL, HANDBALL, BADMINTON (1)

*Staff*

Students may rotate activities during the semester.

### 19. GYMNASTICS\* (1)

*Staff*

Tumbling, stunts, apparatus, pyramids, and trampoline.

### 20. GYMNASTICS, ADVANCED (1)

*Staff*

### 21. WRESTLING\* (1)

*Schleicher*

### 23. TRACK AND CROSS COUNTRY\* (1)

*Huntsman*

### 24. SOCCER\* (1)

*McComb, Staff*

### 25. FOOTBALL\* (1)

*Hess, Staff*

Prereq., permission.

### 27. BASEBALL\* (1)

*Wren*

Prereq., permission.

### 29. BASKETBALL\* (1)

*Snyder*

### 31. SWIMMING\* (1)

*Gilders*

Prereq., permission.

### 33. HANDBALL (1)

*Staff*

### 35. SQUASH RACQUETS (1)

*Staff*

### 39. DIVING FUNDAMENTALS (1)

*Gilders*

### 51. ICE HOCKEY\* (1)

*McComb*

Prereq., permission.

### 52. LACROSSE (1)

*McComb, Staff*

## MEN - WOMEN

### 1. DANCE (Social) (1)

*O'Neal, Phillips*

### 1. ARCHERY (Target and Field) (1)

*Gillespie, O'Neal*

### 3. BEGINNING SWIMMING (1)

*Gilders, Simon*

For students who are unable to swim.

### 4. INTERMEDIATE SWIMMING\* (1)

*Gilders, Simon*

For students who have passed a beginner's swimming test or can swim; instruction and practice in the basic strokes, plain and surface diving. Prereq., 3 or equivalent.

### 5. ADVANCED SWIMMING (1)

*Gilders, Simon*

For those who have passed the Red Cross Swimmers' Test or its equivalent. The analysis and skills of diving, the recognized strokes and their variations, and fundamentals of competitive swimming. Prereq., 4 or permission.

### 7. BEGINNING MODERN DANCE (1)

*Borders*

Fundamentals of movement technique in relation to time, space and dynamics. (Not ballroom dancing.)

**8. INTERMEDIATE MODERN DANCE\* (1)***Borders*

Studies in technique and dance forms. Prereq., 7 or permission.

**9, 10. ADAPTED ACTIVITIES\* (1, 1)***Miller, Trepp*

Students whose physical activities should be restricted are assigned to those activities adapted to their special needs. Prereq., medical permission.

**15, 16. FOLK AND NATIONAL DANCING (1, 1)***Staff*

American square and European dances. 16 is a continuation of 15.

**17. BEGINNING TENNIS (1)***Staff*

Skills, court strategy, and rules.

**18. INTERMEDIATE TENNIS\* (1)***Staff*

A continuation of 17. Prereq., 17 or experience.

**19. GYMNASTICS\* (1)***Staff*

Tumbling, stunts, apparatus, pyramids, and trampoline.

**37. FENCING (1)***Nessley*

Instruction in foil fencing.

**38. ADVANCED FENCING (1)***Nessley*

A continuation of 37.

**39. DIVING FUNDAMENTALS (1)***Gilders***41. BEGINNING GOLF (1)***Blosser, Staff***42. INTERMEDIATE GOLF\* (1)***Blosser, Staff*

Prereq., 41 or playing experience.

**45. BEGINNING BOWLING (1)***Widdoes, Staff*

Pin fee \$15.00.

**47. RIDING (1)***Nessley*

At McAfee and Merriman Farms. Fee \$20.00.

**49. BEGINNING SKATING (1)***McComb, Staff***50. FIGURE SKATING\* (1)***McComb, Staff*

Instruction in U.S.F.S.A. compulsory figures; development of a free skating routine. Prereq.,

mastery of all edges, two turns, two jumps and two stops.

**115, 116. ADVANCED MODERN DANCE\* (1, 1)***Borders*

The more complex coordinations and movement studies. Experimentation in form and composition. Prereq., permission.

**118. LIFE SAVING AND WATER SAFETY (1)***Gilders, Simon*

Techniques included in the test for American Red Cross Senior Life Saving certificate. Prereq., 5 or permission.

**120. INSTRUCTOR'S LIFE SAVING AND WATER SAFETY (1)***Gilders, Simon*

For those who have been certified as American Red Cross Senior Life Savers, Prereq., 118.

**137, 138. CHOREOGRAPHY (1 or 2, 1 or 2)***Borders*

Experimentation in dance composition. Prereq., permission.

**WOMEN**

Courses numbered 1 through 100 and 114, 118, 120, 137-8 may be used to satisfy the physical education requirement.

**1, 2. SPORTS (or Basic Movement) (1, 1)***Staff*

Students choose from field hockey, soccer, basketball, volleyball, softball, archery and badminton; may be repeated if a different sport is taken.

**13. MASS GAMES (1)***Gillespie*

Games for primary and intermediate grades, program planning, and game leadership. For physical education majors or minors, students in elementary education and recreational leaders, or by permission.

**114. CAMP CRAFT (2)***LaTourrette*

An activity course giving experience in fire building, outdoor cooking, and lashing temporary camp equipment. One overnight hike is required.

**PROFESSIONAL COURSES FOR THE MAJOR OR MINOR**

Refer to curricula in Health Education, Physical Education, and Recreation in the Physical Education and Athletics section of the catalog.

## MEN

## 61. INTRODUCTION TO PHYSICAL EDUCATION (1)

*Schleicher, Staff*

Lectures, discussion, and visual aids pertaining to the scope and content of professional physical education. Proficiency tests in a selected group of physical skills.

## 128. ATHLETIC TRAINING (2)

*Hart*

Theory and practice of the treatment and prevention of athletic injuries. Prereq., Zool. 133, 134 or permission.

## 139. ATHLETIC OFFICIATING (2)

*Rhoads*

Rules, mechanics, and procedures for the officiating of football and basketball. State certification upon successful completion.

## 165, 166. PROGRAM SKILLS (2, 2)

*Wilkinson, Staff*

165, Theory and practice of soccer, speedball, tumbling, stunts and apparatus, touch football, swimming proficiency tests, and officiating practice; 166, Secondary school games, marching and conditioning exercises, volleyball, tennis, softball, swimming, gymnastics, and officiating practice.

## 168. FOOTBALL SKILLS (1)

*Hess, Staff*

Prereq. to 268, Athletic Coaching. For those without football playing experience at Ohio University.

## 181. ADMINISTRATION OF INTRAMURAL ACTIVITIES (2)

*Rhoads*

Methods of organizing and administering a program of intramural sports for all age levels.

## 221. PROGRAM SKILLS (2)

*Wilkinson, Staff*

Elementary school games, rhythmicics, archery, handball, squash, racquets, table tennis, bowling, horseshoes, badminton. Prereq., 61; 165 or 166.

## 222. PROGRAM SKILLS (2)

*Wilkinson, Staff*

Wrestling, golf, methods in aquatics, fencing, outdoor education, demonstrations and public relations. Prereq., 61; 165 or 166.

## 267. ATHLETIC COACHING (2 to 4)

*Snyder, Wren*

Basketball and baseball. Theory and practice. Prereq., junior or senior rank.

## 268. ATHLETIC COACHING (2 to 4)

*Hess, Huntsman*

Football and track. Prereq., junior or senior rank.

## MEN - WOMEN

## 102. PERSONAL AND COMMUNITY HEALTH (3)

*Gillespie, Trepp*

Hygenic practices and an appreciation of the means whereby the health of the individual and of the group may be maintained.

## 127. FIRST AID (2)

*LaTourrette*

Principles and practices of American Red Cross First Aid. The Standard Certificate is granted if requirements are met.

## 129. INSTRUCTORS FIRST AID (2)

*LaTourrette*

As prescribed and certified by the American Red Cross. Prereq., current First Aid Certificate.

## 133. ANATOMY AND KINESIOLOGY (4)

*Trepp, Vallowe*

(See Zool. 133.)

## 134. HUMAN PHYSIOLOGY (3)

*Vallowe*

(See Zool. 134.)

## 150. RECREATION (3)

*LaTourrette*

A review of the theory of play, recreation, and group work. Students organize parties and square dances and plan programs for community and institutional groups. Handicraft is included.

## 153. NATURE AND FUNCTION OF PLAY (2)

*Rhoads*

The historical background, theory, need, and administration of play, emphasizing play programs for schools, recreation centers, camps, and clubs.

## 233. THEORY OF ADAPTED ACTIVITIES (2)

*Borders, Trepp*

The organization of programs adapted to the needs of physically handicapped individuals. Prereq., Zool. 133.

## 235. PROGRAM TECHNIQUES (1)

*Miller, Trepp, Staff*

Experiences in the organization, teaching, and management of health education, physical education, and recreation classes. Students are supervised by staff members.

## 269. TEACHING OF HEALTH (3)

*Trepp*

Instruction, principles, and curricula used in presenting health information to pupils in the elementary and secondary schools. Prereq., 102.

## 270. TEACHING OF PHYSICAL EDUCATION (1)

*Jacoby*

Objectives, organization, and program suggestions for elementary school.

**304. HISTORY AND PRINCIPLES OF PHYSICAL EDUCATION (3)**

*Mason*

Physical education systems and their influences from the time of the Greeks; principles underlying physical education in the modern program of education. Prereq., Zool. 133, 134 or equivalent.

**306. ORGANIZATION AND ADMINISTRATION OF PHYSICAL EDUCATION (3)**

*Mason, Miller*

Methods of organizing and administering health and physical education, recreation, and athletics in schools and colleges. Prereq., junior or senior rank.

**309. TESTS AND MEASUREMENTS (3)**

*Wilkinson*

Methods of evaluation in health, education, physical education, and athletics; practice in handling testing data by elementary statistical methods. Prereq., 10 hrs. senior or graduate rank.

**349. COMMUNITY RECREATION (3)**

*Nessley, O'Neal*

History of the play movement, programs and program building, administration of playgrounds, community centers, and recreational activities. Prereq., 10 hrs., senior or graduate rank.

**353. CLINICAL OBSERVATION AND PRACTICE IN PHYSICAL MEDICINE AND REHABILITATION (4)**

*V.A. Hospital Staff*

A concentrated summer school field course at Veterans Administration Hospital, Chillicothe, Ohio. Instruction by hospital corrective therapy staff. Open to senior majors or graduate students in physical education. Prereq., Zool. 133, 134 or equivalent.

**395. SCHOOL HEALTH PROBLEMS (3)**

*Trepp*

Principles, problems, organization, and administration of school health programs including school and community relationships. Prereq., 10 hrs., senior or graduate rank.

**400. GUIDED INDEPENDENT STUDY (1)**

*Mason, Miller*

Guided independent study of a selected problem in physical education with a written report based on the research. Maximum credit in course, 2 hrs.

**401. PROBLEMS IN HEALTH EDUCATION AND PHYSICAL EDUCATION (3)**

*Mason*

An investigation of selected problems in health education and physical education; research reading, discussion, analysis, written reports, examinations.

**406. PROBLEMS OF INTERSCHOOL ATHLETICS (3)**

*Rhoads, Widdoes*

Problems pertaining to interschool athletic com-

petition at all age levels. Prereq., 10 hrs., senior or graduate rank.

**410. THE CURRICULUM IN PHYSICAL EDUCATION (3)**

*Mason*

An analysis of the criteria and procedures for curriculum construction in physical education; a critical evaluation of courses of study; the development of written guides for programs in elementary and secondary schools, and colleges and universities.

**452. PHYSICAL DIAGNOSIS (3)**

*Mattmiller, Staff*

Defects, illnesses, and injuries common to youth that interfere with normal physical, mental and social behavior and the techniques involved in their recognition and management as concerns professional educators.

**491. SEMINAR IN PHYSICAL EDUCATION AND ATHLETICS (3)**

*Mason, Phillips*

Research and investigation in health education, physical education, recreation, or athletics. Topics and problems suitable for thesis writing, methods of research, writing practice, and critical analysis of outlines for research study.

**492. FOUNDATIONS OF HEALTH EDUCATION AND PHYSICAL EDUCATION (3)**

*Miller, Staff*

A summation of the principles from biology, philosophy, psychology; and sociology underlying the programming, instruction, and administration of health education and physical education.

**495. THESIS (As recommended by dept.)**

*Staff*

Prereq., permission.

Any of the following courses may be elected in meeting the requirements for the graduate major in physical education:

Zool. 305, Principles of Physiology; Psych. 336, Social; Psych. 437, 438, Behavior Disorders; Ed. 381, Educational Statistics; Ed. 382, Advanced Educational Statistics; Ed. 385, Educational Measurement.

## WOMEN

**65, 66. PROGRAM SKILLS (2, 2)**

*Simon, Smith*

Theory and practice of team and individual sports, tumbling.

**121, 122. PROGRAM SKILLS (2, 2)**

*Miller, LaTourrette*

Theory and practice of individual sports, folk dancing, gymnastics.

**139. ATHLETIC OFFICIATING (1)**

*LaTourrette*

Theory and practice of officiating field hockey, soccer, and basketball.

**140. ATHLETIC OFFICIATING (1)***LaTourrette*

Theory and practice of officiating volleyball, softball, and track.

**142. CAMP LEADERSHIP (2)***LaTourrette*

The responsibilities of counselors and methods of program planning. Practical leadership experiences.

**272. TEACHING METHODS (2)***Miller*

Field hockey, soccer, and basketball. Prereq., experience in the sports.

**273. TEACHING METHODS (2)***Simon*

Volleyball, softball, track, and field activities. Prereq., experience in the sports.

**274. TEACHING OF RHYTHMIC ACTIVITIES (1)***Phillips*

Folk dancing. Prereq., 15 or 122.

**275. TEACHING OF RHYTHMIC ACTIVITIES (1)***Borders*

Ballroom and modern dancing. Prereq., 8.

**PHYSICS****Distinguished Professor Edwards**

*Professors Breitenberger, Randall (chairman)*

*Associate Profesors Finlay, Munir, Onley, Pierce, Sanford, Stumpf*

*Assistant Professors Barry, Brient, Chen, Dilley, Koshel, Shipman, Unruh, Vittitoe*

The requirement for the A.B. degree with a major in physics is a minimum of 24 semester hours including 5, 6, 114, 115, at least 6 hours in physics courses numbered above 300, and Math. 102. This curriculum is recommended for secondary school science teachers.

The requirement for the B.S. degree with a major in physics is a minimum of 36 semester hours. This must include the General Physics sequence, 201-202, 219-220, and 12 hours of courses numbered above 300 of which at least 4 hours are laboratory courses.

Students in the B.S. curriculum are eligible for membership in the Ohio University Chapter of the American Institute of Physics, and may become eligible for election to Sigma Pi Sigma.

Students preparing to become physicists in industrial, atomic energy, space science or government laboratories, or students who plan to enter graduate study in physics will normally complete more than the 36 hours of physics and should register for additional advanced laboratory courses while completing the B.S. degree.

Those students who wish to enter graduate study in physics should acquire a reading knowledge of two modern languages such as German,

French or Russian. Prospective graduate students are urged to plan their program as early as possible. See the Graduate Bulletin for details of the M.A., M.S., and Ph.D. degree programs.

**5-6. INTRODUCTION TO PHYSICS (4-4)***Edwards, Staff*

Fundamentals of mechanics, heat, sound, electricity, light and atomic structure. Intended mainly for non-scientists including students majoring in liberal arts subjects, the humanities, premedical and predental students, and architects. Lectures with demonstrations, recitations, and lab. 3 lec., 2 lab. (Each sem.)

**113. GENERAL PHYSICS (4)***Randall, Staff*

For students of chemistry, engineering, mathematics, and physics. Mechanics, fluids, heat, and sound. Lectures with demonstrations, recitations, and lab. 3 lec., 2 lab. Prereq., Math. 16 (Each sem.)

**114. GENERAL PHYSICS (4)***Randall, Staff*

For students of chemistry, engineering, mathematics, and physics. Electricity, magnetism, wave motion, and light. 3 lec., 2 lab. Prereq., 113, Math. 101 or with 101. (Each sem.)

**115. GENERAL PHYSICS (3)***Randall, Staff*

Modern physics for students of chemistry, engineering, mathematics and physics. Required of all physics majors. Prereq., 114. (Each sem.)

**120. INTERMEDIATE LAB (1)***Staff*

Experiments in contemporary physics. Prereq., 114, with 115. (2nd sem., yearly.) (For physics majors only.)

**201-202. MECHANICS (3-3)***Unruh*

Fundamentals of physical mechanics and wave motion. Prereq., 115, Math. 215 or with 215. (Yearly.)

**219-220. ELECTRICITY AND MAGNETISM (3-3)***Dilley*

Physical fundamentals of circuits, currents and fields. Prereq., 115, Math. 215 or with 215. (Yearly.)

**268. TEACHING OF PHYSICAL SCIENCE (2)***Pierce*

For secondary school teachers. Prereq., 8 hrs. in physics or chemistry. (2nd sem., 1966-67.)

**305. OPTICS (3)***Unruh*

Physical nature of light, geometrical and physical optics. Lasers and modern applications. Prereq., 220. (2nd sem., 1966-67.)

**308. X-RAYS AND CRYSTAL PHYSICS (2)** *Edwards*  
 Production of x-rays and their interactions with matter. Fundamentals of crystal structure analysis. Prereq., 115. (1st sem., 1967-68.)

**310. THERMODYNAMICS (3)** *Stumpf*  
 Fundamentals of heat, thermodynamics, kinetic theory and statistical mechanics. Prereq., 115, Math. 215. (1st sem., yearly.)

**314. SPECTROSCOPY (3)** *Edwards*  
 Theory of atomic and molecular spectra produced by optical and magnetic resonance methods. Prereq., 115. (1st sem., 1966-67.)

**326. ACOUSTICS (2)** *Stumpf*  
 Fundamentals of vibrations and wave propagation. Prereq., 202, 220, Math. 314. (2nd sem., 1966-67.)

**327-332. ADVANCED PHYSICS LABORATORIES (2 each)** *Staff*  
 Fundamental physical principles and interpretation of data are emphasized through the application of advanced techniques and modern instrumentation in six fields of physics for the chemist, engineer, and physicist. Prereq. for each, 115.

- 327. OPTICS (1st sem., 1967-68.)
- 328. SPECTROSCOPY (2nd sem., yearly.)
- 329. ELECTRICAL MEASUREMENTS (1st sem., yearly.)
- 330. ELECTRONIC CIRCUITS (2nd sem., yearly.)
- 331. X-RAYS (1st sem., yearly.)
- 332. NUCLEAR PHYSICS. (2nd sem., yearly.)

**342. NEUTRON PHYSICS LABORATORY (3)** *Sanford*  
 Properties of the neutron and studies of the uranium reactor. Prereq., 12 hours over 200. (1st sem., yearly.)

**349-350. ATOMIC AND NUCLEAR PHYSICS (3-3)** *Finlay*  
 Fundamental physical laws of atomic and nuclear structure. Prereq., 115, Math. 215. (Yearly.)

**352. INTRODUCTION TO QUANTUM MECHANICS (3)** *Chen*  
 Introduction to basic physical laws in which energy and momentum are quantized. Prereq., 202. (2nd sem., yearly.)

**360. SOLID STATE PHYSICS (3)** *Sanford*  
 Fundamental physical properties of the solid state of matter. Prereq., 314 or 349. (2nd sem., yearly.)

**361. SPECIAL PROBLEMS (1 to 3)** *Staff*  
 Supervised research problems of limited scope in experimental and theoretical physics. Maximum credit in course, 8 hours. Prereq., 15 hours. (Yearly.)

**365. NUCLEAR REACTOR THEORY (3)** *Sanford*  
 Nuclear physics and neutron theory with applications to reactor design and operation. Prereq., 115, Math. 215. (1st sem., yearly.)

**404. THERMOPHYSICS (3)** *Barry*  
 Formal principles and basic methods in thermodynamics and quantum statistical mechanics. Prereq., 352 (or equivalent). (2nd sem., yearly.)

**405-406. MECHANICS (3-3)** *Breitenberger*  
 Basic analytical techniques in traditional and contemporary perspective, with mathematical complements. (Yearly.)

**407-408. ELECTRODYNAMICS (3-3)** *Vittitoe*  
 Maxwell's theory and special relativity, with mathematical complements. (Yearly.)

**409. HIGH ENERGY PARTICLES (3)** *Munir*  
 Experimental results and current questions concerning particles from cosmic rays and accelerators. Prereq., 352 (or equivalent).

**410. ELEMENTARY PARTICLE THEORY (3)** *Munir*  
 Basic theoretical ideas on particle interactions. Prereq., 409, 420.

**413, 414. MATHEMATICAL PHYSICS PRACTICUM (1, 1)** *Breitenberger*  
 Thorough exercises in selected mathematical techniques important to the physicist. Prereq., Math. 215, 313, 314 (or equivalent). (Yearly.)

**415, 416. METHODS OF THEORETICAL PHYSICS (3, 3)** *Onley*  
 Selected, advanced mathematical methods employed in theoretical physics. Prereq., 12 hours. (1st sem., yearly.)

**419-420. QUANTUM MECHANICS (3-3)** *Koshel*  
 Non-relativistic wave and matrix mechanics, with mathematical complements. Prereq., 352 (or equivalent). (Yearly.)

**425, 426. ADVANCED THEORETICAL PHYSICS (3, 3)**

Selected, advanced subjects requiring classical methods. Prereq., 406, 408.

**449-450. NUCLEAR THEORY (3-3)**

*Brent, Finlay*  
Fundamental facts about nuclei and their theoretical interpretation. Prereq., 419.

**460. THEORY OF THE SOLID STATE (3)**

*Chen*  
Basic applications of quantum mechanics to crystalline solids. Prereq., 360 (or equivalent), 404 (or with 404), 419.

**461. STATISTICAL MECHANICS AND THERMODYNAMICS (3)**

*Barry*  
Selected topics. Prereq., 404, 420.

**480. SPECIAL STUDY (1 to 3, 1 to 3)**

*Faculty*  
Supervised individual study in preparation for research. Prereq., permission. (Each semester.)

**481. RESEARCH (As recommended by dept.)**

*Faculty*  
Prereq., 15 hours and permission. (Each semester.)

**489, 490. COLLOQUIUM (1, 1)**

*Breitenberger*  
Selected topics of current interest. (Yearly.)

**491, 492. SEMINAR (Acoustics, High Energy, Solid State, Nuclear, Theoretical, Special Topics) (1 to 3, 1 to 3)**

*Faculty*  
Intensive study of selected subjects by special groups. Prereq., 15 hours and permission. (Several seminars may be held concurrently each semester.)

**495. THESIS (As recommended by dept.)**

*Faculty*  
Prereq., permission.

**519., 520. ADVANCED QUANTUM THEORY (3, 3)**

*Dilley, Onley*  
Selected topics in relativistic and field theory. Prereq., 420.

**549. ADVANCED NUCLEAR THEORY (3)**

*Koshel*  
Selected topics. Prereq., 420, 450.

**560. ADVANCED SOLID STATE THEORY (3)**

*Chen*  
Selected topics. Prereq., 420, 460.

**581. DOCTORAL RESEARCH (As recommended by dept.)**

*Faculty*  
Prereq., 15 hours and permission. (Each semester.)

**595. DISSERTATION (As recommended by dept.)**

*Faculty*  
Prereq., permission.

## PSYCHOLOGY

*Professors A. Anderson, Games, Kahn, Kimmel, Klare, Paulsen, Snyder (chairman)*

*Associate Professors Bradshaw, Bruning, Corwin, Pullen, D. Russell, Thompson, L. Waters, Whalen*

*Assistant Professors Caracena, Comer, Drenstedt, Hanek, Koons, Leckart, Nickols, J. Russell, C. Waters, Worden*

*Instructors Crawford, Semans*

The major requirement for the A.B. degree is 26 semester hours including 1 or 101, 2, 121, 142, 226, 294 and 9 hours in courses numbered 300 to 399. Total hours in psychology courses may not exceed 34. Undergraduate majors, especially those planning to pursue graduate work in psychology, are advised to prepare themselves in allied fields appropriate to their interests. Especially recommended are language, preferably French, German or Russian, biological science, mathematics, philosophy, and the social sciences, including economics.

The facilities of the Psychological Service Center provide opportunities for the training of graduate students in psychology, as well as services to University students, staff, and faculty.

**1. GENERAL PSYCHOLOGY (3)**

*Staff*  
Not open to juniors and seniors. (Each sem.)

**2. PRINCIPLES OF PSYCHOLOGY (3)**

*Staff*  
An extension of 1, with emphasis on learning, motivation, sensory processes, etc. Prereq., 1 or 101. Not open to juniors and seniors. (Each sem.)

**9. IMPROVEMENT OF READING AND STUDY METHODS (1)**

*Staff*  
Credit and points not counted toward a degree. (Each sem.)

**71. EDUCATIONAL PSYCHOLOGY (3)**

*Staff*  
Psychological facts and principles of concern to those planning to teach. Prereq., 1 or 101. Not open to juniors and seniors. (Each sem.)

**101. GENERAL PSYCHOLOGY (3)**

*Staff*  
An intensive course not open to freshmen and to students having had 1. (Each sem.)

**109. ADVANCED READING IMPROVEMENT (1)**  
*Staff*

Practice with reading pacing devices and comprehension exercises designed to increase reading proficiency. No lec., 2 lab. Credit not counted toward a degree. Prereq., 2.5 grade point average. (Each sem.)

**121. ELEMENTARY STATISTICS FOR THE BEHAVIORAL SCIENCES (3)**

*Games, L. Waters*

Measures of central tendency, variability, correlation, and the simplest tests of hypotheses. Prereq., Math. 3 with minimum grade of C, or 9, or 15. (Each sem.)

**131. PSYCHOLOGY OF ADJUSTMENT (3)**

*D. Russell, Staff*

The dynamics, development, and problems of human adjustment. Prereq., 1 or 101. (Each sem.) No credit given if 332 or 333 have been taken.

**142. INTRODUCTION TO PSYCHOLOGICAL TESTS (3)**

*Crawford*

The nature and purpose of psychological measurements. Introduction to tests of intelligence, achievement, personality, and interest. 2 lec., 2 lab. Prereq., 1 or 101, 121. (2nd sem., yearly.)

**162. PSYCHOLOGY OF ADVERTISING AND SELLING (3)**

*Anderson*

Applications of psychology of attention, human motives, learning and remembering, imagery, and individual differences to advertising and selling. Prereq., 1 or 101. (Each sem.)

**173. CHILD PSYCHOLOGY (3)**

*Corwin*

Behavior in infancy and childhood. Prereq., 1 or 101. (Each sem.)

**174. PSYCHOLOGY OF ADOLESCENCE (2)**

*Corwin*

Prereq., 1 or 101. (Each sem.)

**215. PSYCHOLOGY OF INDIVIDUAL DIFFERENCES (3)**

*Bradshaw*

The extent and the nature of individual differences, and the influence of heredity, environment, race, nationality, age, and sex. Prereq., 3 hrs. (1st sem., yearly.)

**226. EXPERIMENTAL PSYCHOLOGY (3)**

*Kimmel, Leckart, Staff*

Training in the scientific methods and techniques of modern experimental psychology with individual reports of experiments. 2 lec., 4 lab. Prereq., 1 or 101, 121. (Each sem.)

**228. LABORATORY PROBLEMS IN GENERAL AND APPLIED PSYCHOLOGY (3)**

*Kimmel, Leckart, Staff*

Extension and application of Experimental Psychology. The student may be required to design and carry out a supervised project. 1 lec., 2 lab. Prereq., 226. (2nd sem., yearly.)

**261. INDUSTRIAL PSYCHOLOGY (3)**

*Crawford, L. Waters, Staff*

The application of psychology to business and industry. Designed for business administration, engineering and technology, and psychology majors interested in entering industry as management trainees. Employee selection; human engineering; attitudes; psychological aspects of labor relations. Prereq., 1 or 101. (1st sem., yearly.)

**294. SENIOR SEMINAR (2)**

*Staff*

Discussion of contemporary problems and systematic issues. Prereq., senior standing in psychology. Maximum credit in course, 2 hours. (Each sem.)

**300. HONORS IN PSYCHOLOGY (3 to 6)**

*Staff*

Prereq., senior standing in psychology, and grade point average of 3.0 in all courses.

**301. EXPERIMENTAL SENSORY PSYCHOLOGY (3)**

*Leckart, Staff*

A systematic study of sensory processes, including vision, audition, gustation, olfaction, and somesthesia. 2 lec., 3 lab. Prereq., 226. (1st sem., yearly.)

**303. LEARNING (3)**

*Kimmel, Staff*

Methods and basic data in the areas of conditioning, discrimination learning, problem solving, habit formation, and retention. 2 lec., 3 lab. Prereq., 226. (1st sem., yearly.)

**308. PSYCHOLOGY OF SPEECH (3)**

*Brandes*

See Speech.

**310. MOTIVATION AND EMOTIONS (3)**

*Staff*

The dynamics of animal and human behavior; a study of drives, desires, incentives; a study of emotion in relation to motives. Prereq., 9 hrs. (2nd sem., yearly.)

**312. PHYSIOLOGICAL PSYCHOLOGY (3)**

*Thompson*

A study of the relationship between integrated behavior and the bodily processes in the intact organism. Prereq., 226., Zool., 3, 4. (1st sem., yearly.)

**314. COMPARATIVE PSYCHOLOGY (3)**

*Thompson*

Behavior of lower and higher organisms leading up to man. 2 lec., 3 lab. Prereq., 226, or Zool. major. (2nd sem., yearly.)

**332. ABNORMAL PSYCHOLOGY (3)***P. Koons, Whalen, Staff*

Man's mental deviations from the normal; theory, application, and limitations of psychoanalysis; methods of studying abnormal mental processes, especially psychoses. Clinics at hospitals. 2 lec., 1 lab. Prereq., 9 hrs. or 6 hrs., and 6 hrs. zoology. (2nd sem., yearly.)

**333. PSYCHOLOGY OF PERSONALITY (3)***D. Russell*

The origins, development, and organization of personality. Prereq., 9 hrs. (1st sem., yearly.)

**336. SOCIAL PSYCHOLOGY (3)***Bruning, Nickols, Staff*

The behavior of man as influenced by group membership, with emphasis on the individual's interaction as a basis of change of motives, attitudes, and personality. Prereq., 9 hrs. (Each sem.)

**351. INTRODUCTION TO CLINICAL AND COUNSELING PSYCHOLOGY (3)***Kahn*

Diagnostic and remedial procedures and resources; professional problems, duties, and skills, and inter-professional relationships. Prereq., 332 or 333 or 336. (1st sem.)

**361. SEMINAR IN PSYCHOLOGICAL PROBLEMS IN INDUSTRY (3)***Crawford, L. Waters*

Problems of selection, placement, motivation, development, and evaluation of employees, with emphasis on job analysis, interviewing, testing, rating, and attitude evaluation as related to worker satisfaction, fatigue, and productivity. Prereq., 1 or 101, course in statistics, 261 or permission. (1st sem., yearly.)

**362. HUMAN FACTORS IN INDUSTRY (3)***Crawford, L. Waters*

Introduction to psychological factors in man-machine systems. Prereq., 226 or jr. standing in engineering. (2nd sem., yearly.)

**363. ADVANCED INDUSTRIAL PSYCHOLOGY (3)***Crawford, L. Waters*

Consideration of the general area of industrial psychology at a senior and graduate level. Prereq., 142 or equiv., 261 or equiv. (1st sem., yearly.)

**373. DEVELOPMENTAL PSYCHOLOGY (3)***Bradshaw, Staff*

An advanced review of fundamental principles and research covering the development of human behavior. Prereq., 173 or 174. (1st sem., yearly.)

**375. PSYCHOLOGY OF EXCEPTIONAL CHILDREN (3)***Bradshaw, Worden*

The growth and development of nontypical children. Prereq., 9 hrs. and 173 or 174 or 373. (Each sem.)

**376. PROGRAMMED LEARNING AND TEACHING MACHINES (3)***Klare, Staff*

Use of programs and machines; principles and procedures in preparing programs; writing of objectives and frames for a trial program. Prereq., a course in learning; sr. or grad. standing. (1st sem., yearly.)

**390. MINOR PROBLEMS IN PSYCHOLOGY (1 to 3)***Bruning*

Training in the scientific study of some problem of special interest to the student. Independent work emphasized. Maximum credit in course, 6 hrs. Prereq., 9 hrs. (Each sem.)

**403. LEARNING THEORIES (3)***Bruning*

Lectures and readings covering theoretical works in the field of learning. Prereq., 226. (1st sem., yearly.)

**406. PSYCHOLOGY OF COMMUNICATION (3)***Klare*

A psychological approach to the process of communication, with applications to problems in the social sciences. Prereq., 12 hrs. (2nd sem., yearly.)

**411. PERCEPTION (3)***Staff*

The psychological principles of perception involving the study of impersonal (time, space, motion) and personal (social) phenomena. Prereq., 15 hrs. (2nd sem., alternate years.)

**417. HISTORY OF PSYCHOLOGY (3)***A. Anderson*

Prereq., 9 hrs. (2nd sem., yearly.)

**418. SYSTEMS OF PSYCHOLOGY (3)***Thompson, Staff*

A critical analysis and comparison of modern and contemporary psychological theory. Prereq., 15 hrs. (1st sem., yearly.)

**421. INTERMEDIATE STATISTICS FOR THE BEHAVIORAL SCIENCES (3)***Games, L. Waters*

The process of statistical inference, and the most commonly used tests of hypotheses involving the normal curve and the *t*, chi-square, and F distributions. Correlation and linear regression. 4 lec., 1 lab. Prereq., 121 or equiv. (1st sem., yearly.)

**422. INTERMEDIATE CORRELATION AND ANALYSIS OF VARIANCE (3)***Games, L. Waters*

Product moment correlation coefficients, Chi Square tests, analysis of variance of independent measures, and repeated measures through the two dimensional usages. Computational procedures for three dimensional and higher designs. 3 lec., 1 lab. Prereq., 421; or Ed. 381 and permission. (2nd sem., yearly.)

**423. DESIGN AND ANALYSIS OF EXPERIMENTS (3)**

*Games, L. Waters*

Analysis of variance techniques and considerations in the design and analysis of experiments; trend analysis; covariance; multiple comparisons. 3 lec., 1 lab. Prereq., 421. (2nd sem., alternate years.)

**424. ADVANCED PRINCIPLES OF TESTS AND MEASUREMENTS (3)**

*Games, L. Waters*

Test theory, item analysis, reliability analysis, cross validation, and an introduction to factor analysis. Statistical considerations of constructing, using, and interpreting tests. Prereq., Psych. 421, Ed. 382. (2nd sem., alternate years.)

**426. ADVANCED EXPERIMENTAL PSYCHOLOGY (4)**

*Kimmel, Staff*

Study of experimental design and techniques. Students will carry out individual experiments. Prereq., 421. (2nd sem., yearly.)

**433. THEORIES OF PERSONALITY (3)**

*Kahn, Staff*

Prereq., 333, 336, (2nd sem., yearly.)

**436. ADVANCED SOCIAL PSYCHOLOGY (3)**

*Bruning, Nickols, Staff*

A summary of the main theoretical and substantive trends in contemporary social psychology, with emphasis upon the role of small group theory and research. Prereq., 336. (2nd sem., yearly.)

**437. BEHAVIOR DISORDERS I (3)**

*P. Koons, Staff*

An empirical approach to the dynamics of behavior disorders. The integration and application of motivational, emotional, perceptual, and learning principles to maladjustments, including psychoneurosis. Prereq., 15 hrs., including 332 or equiv. (1st sem., yearly.)

**438. BEHAVIOR DISORDERS II (3)**

*Staff*

An intensive approach, stressing current literature, to the problems of psychopathology, including organic, psychotic, psychoneurotic, and personality disorders, and mental deficiency. Prereq., 437. (2nd sem., yearly.)

**441. BEHAVIORAL MEASUREMENT (2)**

*Games, L. Waters*

Theory of testing and measurement; basic criteria including objectivity, reliability, validity. Methods of test construction and validation, including questionnaire construction. An introduction to factor analysis. Prereq., 421 or Educ. 381 or equiv.; required of graduates who have not had 142. (2nd sem., yearly.)

**442. INDIVIDUAL INTELLIGENCE TESTING (3)**

*Semans, Staff*

The theory, methods, practice, and results of intelligence tests. 2 lec., 1 lab. Prereq., 142 or 441. (Each sem. and summer.)

**443. ASSESSMENT I — INTRODUCTION (3)**

*Kahn, Koons*

An intensive survey of clinical methods: interviewing, report writing, interprofessional relationships, interpretation of commonly used individual and group assessment methods, and a general introduction to the theory of projective testing. Prereq., 442. (2nd sem., yearly.)

**444. ASSESSMENT II — ADVANCED INDIVIDUAL TESTING (3)**

*Kahn, Koons*

The theory, methods, and introduction to the interpretation of projective testing. Prereq., 443 and 451 or 437. (1st sem., yearly.)

**445. ASSESSMENT III — INTEGRATION (3)**

*Kahn, Koons*

Advanced interpretation of projective and other diagnostic tests and the integration of test findings into a dynamic conceptualization of the individual. Prereq., 444. (2nd sem., yearly.)

**446. PRACTICUM IN PSYCHOLOGICAL ASSESSMENT (3 to 6)**

*Staff*

Experience with psychological measuring devices, especially projective techniques. Prereq., 443 (or concurrently). (Each sem.)

**447. INDIVIDUAL TESTS: EXCEPTIONAL CHILDREN (3)**

*Corwin, Semans*

Introduction to special instruments and techniques for testing the intelligence of exceptional children; supervised experience. 2 lec., 5 lab. Prereq., 442. (2nd sem., yearly.)

**451. PERSONNEL AND VOCATIONAL COUNSELING I (3)**

*D. Russell*

Techniques useful in considering personnel and vocational problems in industrial, commercial, and school work. Prereq., 9 hrs., including 142 or 441. (1st sem., yearly.)

**452. PERSONNEL AND VOCATIONAL COUNSELING II (3)**

*D. Russell*

Consideration of the dynamics of vocational choice and adjustment, theory of interests, occupational information, job classification, uses of community resources, etc., as applied to counseling and personnel work. Prereq., 451 and 332 or 437. (2nd sem., yearly.)

**453. COUNSELING AND PSYCHOTHERAPY I (3)**

*Kahn, Pullen, Staff*

Analysis of theory and practice in counseling and psychotherapy. Prereq., 437. (1st sem., yearly.)

**454. COUNSELING AND PSYCHOTHERAPY II  
(3)**

*Snyder, Staff*

Theory and practice in counseling and psychotherapy with personal adjustment cases. Prereq., 443, 453. (2nd sem., yearly.)

**455. PRACTICUM IN COUNSELING AND PSYCHOTHERAPY (3)**

*Kahn, Pullen, Snyder*

Supervised experience in counseling, and psychotherapy. A pre- or co-requisite to the clinical internship; may be repeated for maximum credit of 6 hrs. Prereq., 454 or concurrently. (Each sem.)

**456. PRACTICUM IN PERSONNEL AND VOCATIONAL COUNSELING (3)**

*D. Russell*

Experience in personnel and vocational counseling. The work will include the handling of counseling cases. Prereq., 451 and 332 or 437. Ed. 362 recommended. (2nd sem., yearly.)

**457. PRACTICUM IN GROUP PSYCHOTHERAPY (3)**

*Pullen*

One lec., 3 lab. Prereq., 454 or equivalent, permission. (2nd sem., yearly.)

**477. PRACTICE OF SCHOOL PSYCHOLOGY (2)**

*Bradshaw, Corwin*

Survey of the responsibilities, activities, and problems of the school psychologist; required of students completing the sequence for school psychology credential. Prereq., 12 hrs. of school psychology sequence. (1st sem., yearly.)

**478. INTERNSHIP IN SCHOOL PSYCHOLOGY (15)**

*Bradshaw, Corwin*

Supervised experience in school psychology activities in a public school system; open only to students who have completed the rest of the school psychology curriculum. Full time work for two semesters. Prereq., 18 cr. of school psychology sequence. (Student who wishes to begin an internship in September must make application by not later than March 1 of that year.) Does not count toward degree credit.

**491. RESEARCH IN PSYCHOLOGY (1 to 6)**

*Staff*

Prereq., 15 hrs., permission. (Each sem.)

**494. ADVANCED SEMINAR IN PSYCHOLOGY (1 or 2)**

*Staff*

Maximum credit in course, 4 hrs. Prereq., 15 hrs., permission. (Each sem.)

**495. THESIS (As recommended by dept.)**

*Staff*

Prereq., permission. (Each sem.)

**595. DISSERTATION (As recommended by dept.)**

*Staff*

Prereq., permission. (Each sem.)

## PUBLIC ADDRESS

(See Speech)

## RADIO-TELEVISION

(See Speech)

## RESERVE OFFICERS' TRAINING

### AEROSPACE STUDIES

*Professor of Aerospace Studies Lieutenant Colonel Barrett*

*Assistant Professors Majors Tyner, Rasmussen Capt. Smith, Walden*

*Instructors and Administrative Assistants MSGT Foster, TSgts. Gerds, Bell, Palmer*

The Department of Aerospace Studies offers two programs which lead to a commission as a second lieutenant in the United States Air Force. Both of these programs are designed for students who are interested in becoming a professional officer with a career in the USAF. The first of these programs, known as the "Four-Year Study Plan" is designed for the student who enrolls in the University as a freshman and is able to fit AFROTC into his plan of study during that year. The second program, known as the "Two-Year Study Program" is designed for the student who was unable (or preferred not) to take AFROTC during the first two years of college. Upon being commissioned, the officer serves a minimum of four years active duty with the U. S. Air Force.

### THE FOUR-YEAR STUDY PLAN

General Military Education Program  
(First two years)

**11, 12. AEROSPACE STUDIES (Freshman)  
(1, 2)**

*Staff*

An introductory course exploring the causes of present world conflicts as they affect the security of the United States, to include an analysis of democracy and communism and the United States power position in world affairs.

A study of the armed forces as an instrument of national policy, missions and functions of the Air Force, and the student's relation to United States world commitments. (One classroom hour per week, plus basic military and leadership training, given during a one hour per week Corps activities period.)

**101, 102. AEROSPACE STUDIES (Sophomore)**  
(1, 2)

*Staff*

A comparative study of world military forces to include Free World land and naval forces, Free World Air Forces.

A study of the communist military systems, a comparative analysis of the free world forces and those of the communist block, trends in the development and employment of military power. (One classroom hour per week, plus basic military and leadership training given during a one hour per week Corps activities period.)

**Professional Officer Education Program**  
(Second two years)

**221, 222. AEROSPACE STUDIES (Junior)**  
(3, 3)

*Staff*

A survey course about the nature of war; development of air power in the United States; mission and organization of the Defense Department; Air Force concepts, doctrine and employment.

A survey course about astronautics and space operations; the future development of aerospace power. (Three classroom hours per week, plus one hour per week of leadership training.) (\$40 per month paid to cadet.) NOTE: Cadet must join the USAF Reserve prior to being admitted to this phase of training.

**SUMMER TRAINING UNIT (2)**

*Air Base Staff*

A four-week training program conducted on an air force base between the junior and senior years, consisting primarily of orientation to air base facilities, with some classroom work to make practical application of courses covered in the freshman, sophomore, and junior years; also, to provide opportunity for life under military conditions. Prereq., 221, 222. (Pay \$120 per month.)

**251, 252. AEROSPACE STUDIES (Senior)**  
(3, 3)

*Staff*

A study of professionalism, leadership and management. Includes the meaning of professionalism; professional responsibilities; the military justice system; Leadership theory, functions and practices.

A study of management principles and functions; problem solving; management tools, practices, and controls. Three class hours per week and one hour in areas of leadership training (\$40 per month paid to cadet.)

NOTE: (1) Under this program, cadets who qualify may take flying instruction at government expense. (36½ hours flying time which may lead to a private pilot certificate.) This training is taken during the senior year.

(2) A financial assistance program is also available for students who qualify. This assistance is in the form of a scholarship and can be worth as much as \$1000 per year to the cadet during his junior and senior years.

**THE TWO-YEAR STUDY PLAN**  
**General Military Education Program**

**250. AEROSPACE STUDIES (3)**

*Air Base Staff*

A six-week field training course taken at an Air Force Base. This course is for students who did not take AS 11, 12, 101 and 102 listed above under the four-year plan. It essentially covers the same material as the general military education courses given on campus. Normally this course is taken during the summer prior to the year that the student will be a junior in college; it must be completed prior to entering AS 221 if the two year plan of study has been selected. Prereq., permission. (Offered in the summer only.) (Pay at the rate of \$117 for 6 weeks, with room, board, books, uniform, and travel expenses furnished.)

**221, 222. AEROSPACE STUDIES (3, 3)**

*Staff*

Identical course as outlined for AS 221 and 222 above under the four-year plan. (\$40 per month paid to cadet.)

**251, 252. AEROSPACE STUDIES (3, 3)**

*Staff*

Identical course as outlined for AS 251 and 252 above under the four-year plan. (\$40 per month paid to cadet.)

(2) No scholarships are available under the two-year plan.

NOTE: Cadet must join the USAF Reserve prior to admission.

**MILITARY SCIENCE**

*Professor of Military Science Colonel Helena*

*Assistant Professors Major Shufelt, Captains Kovacs, Maxson*

*Instructors and Administrative Assistants*

*SMaj Komoroski, 1st Sgt McIntyre,*

*SFC McReynolds, SSgt Wagner,*

*SP4 Whybrew*

Army ROTC offers two military science programs leading to a second lieutenant's commission in the United States Army. The FOUR YEAR PROGRAM is for the student who wishes to begin his military science studies as a freshman. By fitting military science early into his course of study he receives credits towards most degrees and he maintains his eligibility for an Army ROTC scholarship. The TWO YEAR PROGRAM is designed for the transfer student or the on-campus student who is unable to program military science into his schedule during the first two years. The graduate of either program serves on active duty for two years as an officer.

**FOUR-YEAR MILITARY  
SCIENCE PROGRAM**

**Basic Military Science, 1st two years**

**I, 2. MILITARY SCIENCE I (Freshman)**  
(1, 2)

*Staff*

Organization of the Army and ROTC—A survey of the purpose and objectives of the ROTC program, of the history and organization of the local ROTC unit, of the theory of military organization with emphasis on smaller units.

Individual weapons and marksmanship—Course provides a practical working knowledge of the basic individual weapon presently used in the U.S. Army.

U. S. Army and National Security—A study to provide the student with an understanding of the missions and responsibilities of the U. S. Army as a member of the National Defense team.

**101, 102. MILITARY SCIENCE II**  
(Sophomore) (2, 2)

*Maxson*

American Military History—Course is designed to provide the student with a sound foundation in the principles of the art of warfare as exemplified in American military history.

Map and Aerial Photograph Reading—A comprehensive study of the techniques employed in the use of maps and aerial photographs.

Basic Operations and Tactics—A survey course covering (1) organization, composition and mission of the infantry rifle squad, (2) combat formations and patrolling, (3) battlefield protection and camouflage, and (4) technique of fire and the principles of offensive and defensive combat.

**Advanced Military Science, 2d two years**

**221, 222. MILITARY SCIENCE III (Junior)**  
(1, 3)

*Helena*

Leadership—Case history studies of the psychological, physiological and sociological factors which affect human behavior. The course emphasizes proven practices and devices utilized by the effective leader.

Military Teaching Principles—A course devoted to the principles, methods, and techniques fundamental to public presentations and military instruction.

Branches of the Army—A survey course which presents the student with background information on the branches to assist the student in selecting the branch in which he desires to be commissioned.

Small Unit Tactics and Communications—A study of the fundamentals of small unit tactics and the application to the units of the infantry battalion.

Counterinsurgency—Orientation on the nature and causes of insurgency, and the role of the U. S. Army in the nation's counterinsurgency mission.

**ADVANCED ROTC SUMMER CAMP (3)**

*Camp Staff*

A six week field training program, normally between junior and senior years, conducted at an Army installation. Provides an opportunity to evaluate the student in his application of academic

studies to daily leadership situations. Prereq., 221-222.

**251, 252. MILITARY SCIENCE IV (Senior)**  
(3, 1)

*Kovacs*

Military Justice—A study of the Uniform Code of Military Justice, emphasizing the administration of military justice by the commander and the military courts and appeals system.

Logistics—A survey of the basic principles involved in logistic support for small units.

Operations—A comprehensive study of military staff organizations, relationship between commanders and their staffs, and military planning procedures.

Administration—Course designed to provide the student with the basic concepts of Army administration.

Role of the United States in World Affairs—Seminar in the relationships existing between international conflict, national purpose, national power and national policies.

Service Orientation—Presents a picture of service life, to include personal and official relationships.

**LEADERSHIP LAB**

A practical exercise period conducted for two hours weekly for eight weeks each semester in the early fall and late spring. Course provides for experiences in discipline and the development of essential characteristics of leadership through progressive training on the drill field for the basic course student. Required of all AROTC students.

**TWO-YEAR MILITARY  
SCIENCE PROGRAM**

**Advanced Military Science, two years**

**BASIC ROTC SUMMER CAMP (3)**

*Camp Staff*

A six week field training program offered to students who elect the TWO YEAR PROGRAM. It provides the student with the necessary military science background to compensate for the instruction missed in 1-2, 101-102. It must be completed prior to enrolling in Advanced Military Science and will generally be scheduled between the sophomore and junior years. Prereq., PMS permission.

**221, 222. MILITARY SCIENCE III (Junior)**  
(1, 3)

*Helena*

Course is identical to 221, 222 outlined under FOUR YEAR MILITARY SCIENCE PROGRAM.

**ADVANCED ROTC SUMMER CAMP (3)**

*Camp Staff*

Program is identical to that outlined under FOUR YEAR MILITARY SCIENCE PROGRAM.

**251, 252. MILITARY SCIENCE IV, (Senior)***Kovacs*

Course is identical to 251, 252 outlined under  
FOUR YEAR MILITARY SCIENCE PROGRAM.

**LEADERSHIP LAB**

TWO YEAR PROGRAM students participate in leadership lab as outlined under FOUR YEAR PROGRAM.

**RUSSIAN**  
See Modern Languages**SOCIOLOGY AND ANTHROPOLOGY***Professor Harlan (chairman)**Associate Professors Schafer, Worstell**Assistant Professors Dennis, Horning, Webb**Instructors Draper, Kuhre*

The requirements for a major in sociology are: (1) *Specific courses:* 1 or 101, 2 or 102, 110, 151-152, 175, 301 or 303, and 375. (2) *Area requirements:* a minimum of 15 hours chosen from at least three of these six areas of specialization: Social Organization (203, 207, 211, 260, 320, 321, 334); Social Psychology and Collective Behavior (203, 229, 321, 325, 335, 336, 345); Social Disorganization (203, 220, 311, 322, 341); Community Structure and Population (203, 204, 209, 211, 315, 318, 334); Pre-professional Social Work (117, 203, 233, 234, 339, 341, 342); and Anthropology (105, 125, 202, 211, 225, 250, 315, 316).

Majors ordinarily take 1 and 2 in the freshman year (101-102 for sophomores), and 110 and 151-152 in the sophomore year. In fulfilling the College of Arts and Sciences requirement in the natural sciences, majors should register for Biol. 1-2 or Zool. 3-4, Math. 3 or 9, and a course in statistics. (See the College of Arts and Sciences section of this Bulletin for additional information concerning preparation for work in criminology, juvenile delinquency, and social work.)

**1. INTRODUCTION TO SOCIOLOGY (3)***Staff*

Introduction to the scientific study of society. Develops basic concepts for an understanding of culture, personality, group interaction, community organization, population, and social institutions. Not open to juniors or seniors. (Each sem.)

**2. SOCIAL PROBLEMS (3)***Staff*

Survey of major problems in American society through sociological analysis of current popular and scientific materials relating to such matters as unemployment, mental health, urban redevelopment, crime and delinquency, family disorganization, and race relations. Not open to juniors and seniors. Prereq., 1. (Each sem.)

**101. PRINCIPLES OF SOCIOLOGY (3)***Staff*

An introductory course covering the same topics as 1 in a more intensive manner. Not open to students who have taken 1. (Each sem.)

**102. AMERICAN SOCIETY (3)***Staff*

Analysis of structure and changes in contemporary American society; the family, education, religion, industry, political institutions; urbanization, race relations, social classes, social problems. Not open to students who have taken 2. Prereq., 1 or 101. (Each sem.)

**105. INTRODUCTION TO ANTHROPOLOGY (3)***Dennis*

Human origins, migrations, and the distribution of races; prehistoric development of human societies; analysis of representative cultures of the Old and New Worlds; primitive cultural, social, and economic organization. Prereq., 1 or 101. (Each sem.)

**110. SOCIAL BEHAVIOR (3)***Staff*

Introduction to social psychology: the development of role-taking ability and self-concept; the patterning of personality and conduct through social interaction. Prereq., 1 or 101. (Each sem.)

**117. SOCIAL SECURITY SYSTEM (2)***Worstell*

Programs, policies, and problems related to the prevention and alleviation of economic insecurity in the United States. (Each sem.)

**125. THE AFRICANS AND THEIR CULTURES (3)***Dennis*

Survey of territorial groupings by regions, climatic zones, demographic, racial composition, language families, prehistory and present history; emphasis on indigenous cultural institutions with particular focus on West Africa. Prereq., 105. (1st sem., yearly.)

**151. ELEMENTARY RESEARCH TECHNIQUES (3)***Staff*

Laboratory course in scientific procedure in the study of social behavior. Study design, schedule and scale construction, techniques of survey and depth interviewing and recording, analysis of data, and research reports. Prereq., 1, or with 101. (1st sem., yearly.)

**152. FIELD STUDIES IN SOCIOLOGY (2)***Staff*

Planning and execution of an empirical study of interest to the student, utilizing the skills developed in 151. Limited class meetings, conferences with instructor, research report. Prereq., 151. (2nd sem., yearly.)

**175. CURRENT SOCIOLOGICAL LITERATURE**

(1)

*Staff*

The scope and types of professional literature in sociology, especially journals; writing and presentation of critiques of current research. Prereq., 2 or 102. (Each sem.)

**202. READINGS IN ANTHROPOLOGY (1)***Staff*

Supervised reading in archaeology, physical anthropology, linguistics, ethnography, and social and cultural anthropology, including economics, government, religion, and culture and personality. Maximum credit in course, 2 hrs. Prereq., 105. (Each sem.)

**203. READINGS IN SOCIOLOGY (1)***Staff*

Independent reading in a field chosen by the student, under the guidance of a staff member. Maximum credit in course, 2 hrs. Prereq., 2 or 102. (Each sem.)

**204. URBAN COMMUNITIES (3)***Kuhre*

Development of cities since 1800; population, ecological pattern, and social organization of modern cities; role of the metropolis in region and nation; city planning. Prereq., 1 or 101. (2nd sem., yearly.)

**207. SOCIOLOGY OF EDUCATION (3)***Webb*

Study of the school as a social institution in relation to the community and the development of the child; comparative systems of education; sociology of learning and teaching. Prereq., 1 or 101. (2nd sem., yearly.)

**209. INTRODUCTION TO THE STUDY OF POPULATION (3)***Staff*

Growth, composition, and distribution of populations; fertility, mortality, and migration; relationships between social organization and demographic processes. Prereq., 6 hrs. (1st sem., yearly.)

**211. RACE AND CULTURE CONTACTS (3)***Draper*

Processes of competition, conflict, accommodation, and assimilation in the relations of racial and ethnic groups; individual and collective experiences arising in the contacts of peoples of diverse cultures. Prereq., 6 hrs. (2nd sem., yearly.)

**220. SOCIOLOGY OF DEVIANT BEHAVIOR (3)***Schafer*

Systematic survey and theoretical analysis of major types of deviant behavior, including criminality, suicide, drug addiction, and mental disorders. Factors underlying deviation; programs of prevention and control. Field trips. Prereq., 1 or 101. (1st sem., yearly.)

**225. CULTURE AREAS OF SUBSAHARAN AFRICA (3)***Dennis*

Descriptive survey of the six major culture areas of sub-Saharan Africa, analyzed in terms of organization based on ecological factors and orientation of institutions as guides to total ways of life; emphasis on the Guinea Coast (West Africa). Prereq., 125. (2nd sem., yearly.)

**229. CROWD AND MASS BEHAVIOR (3)***Harlan*

Collective behavior in situations of social unrest; the impact of crowd behavior upon social institutions; social-psychological factors in mass communications and consumer behavior; rumor, panic and disaster reactions. Prereq., 1 or 101. (1st sem., yearly.)

**233. SOCIAL WELFARE I (3)***Worstell*

The development of social welfare as a contemporary social institution, and of social work as a profession. Prereq., 1 or 101. (Each sem.)

**234. SOCIAL WELFARE II (3)***Worstell*

An analysis of legislation, welfare services and related services designed to enhance the well-being of families and children who encounter difficulties in their social functioning. Prereq., 233, or 6 hrs. Psych. (Each sem.)

**250. SOCIAL ANTHROPOLOGY (3)***Dennis*

The sociology of primitive peoples, with emphasis upon social structure and the functional institutional analysis of primitive cultures. Selected studies of early and non-literate peoples, chosen to illustrate the approach and contributions of anthropological investigation. Prereq., 1 or 101 and 105. (2nd sem., yearly.)

**260. SOCIOLOGY OF THE FAMILY (3)***Horning*

The family in various cultures; courtship, marriage, and family relationships in American society; family disorganization; the development of marriage counseling. Prereq., 1 or 101. (1st sem., yearly.)

**301. SOCIAL RESEARCH METHODS (2)***Staff*

Analysis of the research process in terms of problem definition, experimental design, field techniques, and methods of data analysis. Prereq., 152 or a course in statistics. (1st sem., yearly.)

**303. SOCIOLOGICAL THEORY (2)***Staff*

Historical development of sociology; major European and American contributors; recent trends and the status of specialized fields of interest. Prereq., 9 hrs. (2nd sem.)

**311. CRIMINOLOGY AND PENOLOGY (3)***Schafer*

Causal factors in criminal behavior; typology of offenders; crime statistics; criminal codes, formal and informal prison social systems; treatment techniques and facilities. Field trips. Prereq., 6 hrs. (1st sem., yearly.)

**315. FOLK COMMUNITIES (3)***Dennis*

Comparative study of primary village communities; peasantry as an historical phenomenon; the folk community as an embodiment of civilization in Europe, India, the Far East, or Mexico. Prereq., 6 hrs. (1st sem., yearly.)

**316. CULTURE AND CIVILIZATION (3)***Dennis*

Analysis of the concept "civilization" and of the transformation of social life which it represents. Social institutions and change in selected early cultures and civilizations outside the main course of Western history. Prereq., 6 hrs. (2nd sem., yearly.)

**318. WORLD POPULATION TRENDS (3)***Staff*

Differential rates of growth in various countries; technological, health, economic, and political problems; current national and international policies and programs. Prereq., 209, or 9 hrs. Econ. or Govt. (2nd sem., yearly.)

**320. SOCIOLOGY OF ORGANIZATION (3)***Horning*

Study of the work plant as a social system, with emphasis upon work-group relationships and behavior; the meaning and organization of work, managerial functions, and the structure of trade unions. Prereq., 6 hrs. (1st sem., yearly.)

**321. CONTEMPORARY SOCIAL MOVEMENTS (3)***Harlan*

Organized movements resulting in major social changes; revolutionary, nationalistic, reform, religious, and fashion movements; leaders, ideologies, tactics; case studies of typical movements. Prereq., 6 hrs. (2nd sem., yearly.)

**322. JUVENILE DELINQUENCY (3)***Schafer*

Factors associated with delinquency; characteristics of delinquents; juvenile courts and clinics; probation, correctional training; delinquency prevention. Field trips. Prereq., 6 hrs. (2nd sem., yearly.)

**325. PERSONALITY AND SOCIETY (3)***Harlan*

Analysis of personality development in relation to cultural differences and social class position; human nature, feeling, motivation, social perception; problem-solving and reference-group behavior in successive life-stages. Prereq., 110, or 9 hrs. psych. (2nd sem., yearly.)

**334. SOCIAL STRATIFICATION (3)***Webb*

Caste, estate, and class system, and their relation to occupation, life-expectancy, health, mental disorder, education, political interests; factors in social mobility. Prereq., 6 hrs. (2nd sem., yearly.)

**335. PUBLIC OPINION PROCESSES (3)***Harlan*

Attitude and opinion formation relating to public issues and decisions; personality, reference groups, and social status as factors in political socialization and participation; the role of mass media and organizations in opinion formation. Prereq., 110 or 229. (1st sem., yearly.)

**336. MASS COMMUNICATIONS (3)***Harlan*

Personal and social functions of mass media content. Types of content and audiences; normative and acculturative effects. Group consensus and conflict. Organizational characteristics of mass communications systems. Prereq., 229 or 335 (2nd sem., yearly.)

**339. INTRODUCTION TO THE PROFESSION OF SOCIAL WORK (3)***Worstell*

An analysis of the characteristics of social work as a profession, and a descriptive study of the methods of social work and the settings in which they are practiced. Prereq., 234 or perm. (Each sem.)

**341, 342. FIELD AND AGENCY EXPERIENCE (2, 2)***Schafer and Worstell*

Assignment to a welfare or correctional agency for observation and limited work experience. Agency supervision, regular conferences with instructor. Two afternoons each week. Prereq., 311 or 322 or 339, permission. (Each sem.)

**345. SMALL GROUP ANALYSIS (2)***Harlan*

Theory of small group interaction, communication, role definition, and leadership; concepts and methods employed in the study of group structure and function. Prereq., 110 or 9 hrs. psych. (2nd sem., yearly.)

**350. TOPICAL SEMINARS (2)***Staff*

Selected topics in the following areas; given in sequence in a two-year cycle:

a. DEVIANT BEHAVIOR

*Schafer*

b. SCHOOL AND COMMUNITY

*Webb*

c. OCCUPATIONS AND PROFESSIONS

*Horning*

d. CULTURAL CHANGE

*Dennis*

Maximum credit in course, 4 hrs. Prereq., 15 hrs., permission. (Each sem.)

**375. SENIOR SEMINAR (2)***Staff*

Required of all senior majors; includes comprehensive examination covering required courses and

electives submitted for major. Students graduating at mid-year will substitute 350 or 381. Prereq., 20 hrs., senior status. (2nd sem.)

### **381. RESEARCH PROBLEMS IN SOCIOLOGY (1 to 3)**

*Staff*

Individual research coordinated with other student or faculty projects. Maximum credit in course, 6 hrs. Prereq., 15 hrs., including 152 and 175, permission (Each sem.)

### **404. MEASUREMENT OF EFFECT IN MASS COMMUNICATIONS (3)**

*Harlan*

Intensive analysis of the problems and methods of research designed to measure the extent of attitude, opinion, and behavioral change related to various types of mass media content, with critiques of major studies; planning of a study of interest to the student. Prereq., 229 or 335, 336 or equivalent, and a course in research methods. (1st sem., yearly.)

### **410. PROPAGANDA TECHNIQUES AND OBJECTIVES (3)**

*Harlan*

The use of mass communications as instruments for directed behavioral change; psychological warfare, international political propaganda, coercive persuasion; individual and group susceptibility; methods of propaganda analysis. Prereq., 229, 335 or 336, 404, or equivalent courses in related areas. (2nd sem., yearly.)

### **491. GRADUATE SEMINARS (2)**

*Staff*

Offered in sequence in a two-year cycle in the following areas: (a) Social Organization, (b) Social Psychology, (c) Collective Behavior, (d) Population and Community Structure. Maximum credit in course, 6 hrs. Prereq., permission.

### **495. THESIS (4)**

*Staff*

Prereq., 152, 301, 381, or equivalents, permission.

## **SPEECH**

### **Public Address**

### **Radio and Television**

### **Speech, Pathology, Audiology, and Speech Science**

### **Theatre and Interpretation**

*Professor Kantner, Director*

The School of Dramatic Art and Speech offers courses in the arts and sciences of communication through speech in the four areas listed above, each with its own area chairman and staff. Five majors are available, one in General Speech and one in each of the specialized areas. The majors in Gen-

eral Speech and Speech and Hearing Therapy may be taken in the College of Fine Arts or the College of Education. The majors in Communication in Organizations, Theatre and Interpretation and Radio and Television are available only in the College of Fine Arts.

Studies in the scientific and artistic bases of oral communication and in communication theory are enriched and applied through laboratory experience in various co-curricular programs. Those interested in group communication and public address may study the problems of communication at first hand in business, industrial, educational and other types of organizations in the Center for Communication Studies and in the Laboratory for Research in Persuasion and Propaganda. They may also participate in first-year debate, varsity debate and intercollegiate contests in oratory, extemporaneous speaking and oral interpretation.

Practical on-the-air experience in radio and television is provided in the University radio station, WOUB-AM and FM and in the new television station, WOUB-TV. Experimental broadcasts of dramatic material are produced jointly by students in radio-television and theatre.

Students in theatre may take part in the five major and four studio productions each year of the University Theatre, the various one-acts produced by the Theatre Workshop, the annual musical comedy which is sponsored jointly by the School of Dramatic Art and Speech and the School of Music and the six plays given each season by the Ohio Valley Summer Theatre or the eight produced in the Monomy Summer Theatre on Cape Cod.

A Speech and Hearing Clinic and Audiological Center which serve the needs of students and faculty in the University and of both children and adults in Southeastern Ohio offer excellent opportunities for experience in therapy for students in this area. Consultations concerning all types of speech disorders may be arranged with the director of the clinic. Remedial training is provided without charge to regularly enrolled students under the direction of a competent speech pathologist. The Audiological Center is equipped and staffed to test all types of hearing disorders, give auditory training and fit and evaluate hearing aids. A special clinic for children serves the Athens area. Nominal fees are charged for the examination or treatment of non-students. Research in speech science and audiology is implemented by a well-equipped laboratory with four associated sound-proof rooms.

The facilities of the Recording and Listening Laboratory are available daily to students in all areas of speech.

The School of Dramatic Art and Speech also sponsors the following professional societies: Delta Sigma Rho-Tau Kappa Alpha (forensics), Footlighters and National Collegiate Players (theatre), Alpha Epsilon Rho (radio-television), and Sigma Alpha Eta (speech and hearing therapy). These societies, and the co-curricular activities mentioned above, are described in greater detail in the student activities section of the catalog.

Excellence of scholarship and superior performance in speech are also recognized by a number of annual awards: the Lorin C. Staats award for scholarship and participation with distinction in one or more forensic areas; the Alice Newcomb

scholarship based on academic achievement, character and campus citizenship for a student with sophomore standing or above who graduated from Athens High School, first preference, or from an Athens County High School; the Alpha Gamma Delta award to a senior girl in Speech Pathology and Audiology who goes on to graduate study; the Irma E. Voigt memorial award of Sigma Kappa to a senior girl for excellence in dramatic productions; the Francis McVicker Maxwell award to a junior or senior student for outstanding achievement in intercollegiate debate, and the Zeta Tau Alpha prize in Fine Arts which is based on scholarship and merit and rotated between Music, Art and Theatre.

## GENERAL SPEECH

*Professors Andersch, Kantner*

*Associate Professor Wiseman*

*Assistant Professors Conover, Hahne*

### 1. FUNDAMENTALS OF SPEECH (1)

*Andersch, Staff*

Study and practice of basic techniques for effective participation in everyday speaking situations. 1 lec., 1 lab.

### 2. VOICE AND ARTICULATION (2)

*Hahne, Staff*

Designed to help each student discover and remedy his vocal and articulatory problems. Not open to majors.

### 3. PUBLIC SPEAKING (2)

*Wiseman, Staff*

Principles of public speaking. Practice in presenting short informative, entertaining, and persuasive speeches with emphasis upon intellectual and emotional adjustments to speaking situations. Prereq., 1 or proficiency test.

### 7. BASIC SPEECH TRAINING (2)

*Hahne, Staff*

Group drill and individual instruction designed to help the student achieve adequate proficiency in the basic aspects of speech. Open only to, and required of, majors or prospective majors in Dramatic Art and Speech. Credit will not be given for both 2 and 7.

### 34. ORAL INTERPRETATION OF LITERATURE (3)

*Conover, Staff*

Techniques in oral interpretation and the development of adequate intellectual and emotional responsiveness to the meaning of literature. Prereq., 2 or 3 or permission.

### 104. BASES OF SPEECH (3)

*Andersch*

Analysis of the nature and function of the bases of speech, including the psychological, social, physical, physiological, phonetical, linguistic, semantic, genetic and neurological.

### 260. TEACHING OF SPEECH AND THEATRE (3)

*Andersch*

Analysis of communication needs and abilities of high school students as a basis for curriculum planning; organization of curricular and co-curricular speech and theatre activities. Prereq., junior standing, major or minor in Dramatic Art and Speech.

### 401. INTRODUCTION TO GRADUATE WORK (3)

*Kantner*

Men, movements, and professional literature in the field of speech. Conduct of research and selection of a thesis problem.

### 462. SPEECH AND HIGHER EDUCATION (3)

*Andersch*

Current problems and challenges facing higher education and their effect on the speech discipline; evolution of curricula in speech, theatre, radio-television, and speech and hearing therapy; analysis of basic speech courses.

### 491. SEMINAR IN SPEECH EDUCATION (3)

*Andersch*

Problems and research relating to the teaching of basic speech courses at the college level. Individual projects.

## PUBLIC ADDRESS

*Professors Boase (Area Chairman), Andersch, Brandes, Staats*

*Associate Professor Wiseman*

*Assistant Professor Faules*

*Instructors Arnold, Foster, Siegelin, Wagner*

### 25. PRINCIPLES OF ARGUMENTATION (2)

*Faules, Staff*

Analysis, synthesis and criticism of reasoned discourse studied in the framework of theory and practice.

### 110. PARLIAMENTARY PROCEDURE (1)

*Staats, Staff*

Prereq., 1 or proficiency test.

### 112. ADVANCED PUBLIC SPEAKING (2)

*Faules*

Extended study and application of the principles of public speaking with emphasis on content and organization. Preparation and delivery of various types of speeches of substantial length. Prereq., 3 or permission.

### 147. WORKSHOP IN SPEECH (1 or 2)

*Foster, Staats*

Preparation and delivery of speeches and readings for local, state, and national contests and/or inter-collegiate debate. Maximum credit in course, 6 hours. Prereq., permission.

**305. GROUP DISCUSSION AND CONFERENCE LEADERSHIP (3)**

*Wiseman*

Types of group discussion, conference leadership and principles of general semantics; social responsibility, ethical problems and standards; frequent practice in discussion. Prereq., junior standing.

**306. PSYCHOLOGY OF COMMUNICATION (3)**

*Klare*

See Psychology.

**308. PSYCHOLOGY OF SPEECH (3)**

*Brandes*

Psychological principles active in communication, such as laughter, lying, speech snobbery, stage fright and the relationship between personality and speech. Prereq., 104 or Psych. 1 and 6 hours speech or psychology.

**309. CLASSICAL RHETORICAL THEORY (3)**

*Boase*

The principles of rhetoric based upon the theories of Aristotle, Cicero, Plato, Adams and Quintilian. Speeches of eminent orators are analyzed. Prereq., F.A. 203-204 or permission.

**316. COMMUNICATION AND THE CAMPAIGN (3)**

*Faules*

Analysis of the process of communication as it occurs in the campaign situation. Prereq., permission.

**325. DIRECTION OF FORENSIC PROGRAMS (3)**

*Brandes, Faules*

Organization of forensic programs, management of inter-school contests and tournaments, principles of coaching and judging. Practical application in the University forensic program. Prereq., 25, 205, or equivalent.

**340. APPLICATIONS OF GENERAL SEMANTICS TO SPEECH (3)**

*Wiseman*

The chief formulations from general semantics with special emphasis on their application to the field of speech. Prereq., 10 hrs. of speech or permission.

**342. PERSUASION AND PROPAGANDA (3)**

*Brandes*

Study of the ways in which attitudes are changed by communication with emphasis on the experimental approach. Units on communicator credibility, emotion, reasoning, evidence, arrangement and criterion measures. Prereq., 9 hours including 25 or permission.

**344. APPROACHES TO THE STUDY OF COMMUNICATION (3)**

*Wiseman*

Comparison and integration of various approaches to the study of communication and behavior in individuals and groups. Communication theory is integrated with social, linguistic, psychiatric, and learning theories. Prereq., 12 hours or 9 hours of psychology, or permission.

**349. RHETORICAL CRITICISM (3)**

*Boase*

Theories and critical methods of Plutarch, Cicero, Goodrich, Brougham, and selected modern writers. Prereq., 12 hrs., including 309, or equivalent.

**355. CREATIVE PROBLEM SOLVING (3)**

*Wiseman*

A study of creativity, problem solving techniques and their relationship to communication. Prereq., junior standing.

**366. COMMUNICATION IN ORGANIZATIONS (3)**

*Faules*

Traditional and modern communications channels in organizations; communication models and networks; communication principles applied to message designs, feed-back systems, interviewing and decision-making. Management 211 is recommended as preparation. Prereq., 344, junior standing or permission.

**370. AMERICAN PUBLIC ADDRESS TO 1865 (3)**

*Boase*

The history of public address in America from colonial times through the Civil War. Prereq., junior standing, 9 hrs., or permission.

**371. AMERICAN PUBLIC ADDRESS, 1865 TO PRESENT (3)**

*Boase*

The history of public address in America from 1865 to the present. Prereq., junior standing, 9 hrs. or permission.

**373. FRENCH PUBLIC ADDRESS (3)**

*Brandes*

A study of the pulpit orators of the 17th century and the political orators of the French Revolution and the Second and Third Republics. Prereq., 9 hrs. or permission.

**381. RESEARCH (2 to 4)**

*Staff*

Maximum credit, 6 hrs. Not open to graduate students. Prereq., senior standing and permission.

**385. CONTEMPORARY PUBLIC ADDRESS (3)***Brandes*

Analysis of the impact of contemporary speakers, such as Gandhi, Kennedy, Martin Luther King and others. Emphasis on style. Prereq., 12 hours.

**395. ADVANCED ARGUMENTATION AND DEBATE (3)***Brandes*

Study of formal rhetorical logic. Emphasis on the syllogism and the fallacy in political debates, such as the Lincoln-Douglas debates of 1858. Prereq., 15 hrs., including 25 or 112, or equivalent.

**412. ADVANCED SPEECH COMPOSITION AND DELIVERY (3)***Staats*

Advanced study of content, organization, composition, and delivery of lecture-length speeches. Prereq., 112, 309, or equivalent.

**472. BRITISH PUBLIC ADDRESS**

A study of the British parliamentary orators of the 18th and 19th centuries. Prereq., 309 or equivalent.

**473. RENAISSANCE RHETORICAL THEORY (3)***Boase*

The major rhetorical theories from Cox in 1530 to Whately in 1828 are covered with emphasis on the Renaissance linking of ancient to modern rhetoric.

**475. GREEK, ROMAN, AND PATRISTIC PUBLIC ADDRESS (3)***Staats*

Historical and cultural aspects of public address in the Greek, Roman and Patristic periods. Outstanding speakers and speeches of each period analyzed in terms of the issues of the time. Prereq., 309, F.A. 203-204.

**490. SEMINAR IN PUBLIC ADDRESS (3)***Boase, Brandes, Staats*

Advanced study in the history of public address, or rhetorical theory, or rhetorical criticism and speech analysis. Prereq., 309 or 471, or equivalent. May be repeated for credit.

**494. RESEARCH (1 to 12)***Staff*

Individual, guided research on special problems. Projects must be approved prior to registration. Prereq., 8 hrs., permission.

**495. THESIS (As recommended by dept.)***Staff***595. DISSERTATION (As recommended by dept.)***Staff***RADIO AND TELEVISION***Professor Summers (Area Chairman)**Associate Professor Holmes**Assistant Professors Glick, Greer, Spalding**Instructors Marshall, Sarno, Saunders***79. INTRODUCTION TO RADIO-TELEVISION****(2)***Greer, Wagner*

Organization, structure and functions of broadcasting as a mass medium of communication.

**80. BROADCAST SPEECH (2)***Saunders*

Responsibilities and skills required of the radio-television performer; practice in microphone and camera techniques. One lec., three lab. Prereq., Speech 7 for majors.

**105. ELECTRONIC BASES OF COMMUNICATION****(2)***Glick*

Principles of electronic reproduction of sound and pictures; characteristics and functions of basic electronic equipment. One lec., two lab.

**109-110. BROADCAST PRODUCTION TECHNIQUES (3-3)***Glick, Spalding*

The basic elements involved in writing, producing and directing a radio or television program. Two lec., two lab. Prereq., 80.

**201. BROADCASTING AND THE PUBLIC (3)***Saunders, Summers*

Interrelationships between the broadcaster, government and the public; bases for evaluation of the significance of broadcasting in society.

**216. CONTINUITY WRITING (3)***Saunders, Summers*

Elements of writing for broadcasting, stressing commercial and non-commercial program continuity and announcements, promotional and public service campaigns. Two lec., two lab. Prereq., 109-110.

**225. ADVANCED RADIO PRODUCTION-DIRECTION (3)***Glick*

Production of special program types stressing integration of various elements; remote and taped broadcasts. Two lec., two lab. Prereq., 109.

**231. ADVANCED TELEVISION PRODUCTION-DIRECTION (3)***Holmes, Marshall*

Analysis of the theory and techniques of directing for television. Practice with basic program formats. Two lec., two lab. Prereq., 110.

**302. PRINCIPLES OF TELEVISION PRODUCTION (3)**

*Marshall*

Production aspects of television and general principles of equipment operation and crew responsibilities. Laboratory experience. Two lec., two lab. Prereq., 180.

**317. DRAMATIC AND DOCUMENTARY WRITING (3)**

*Spalding*

Writing and critique of the form, structure, and presentation of both dramatic and non-dramatic programs and series. Prereq., 12 hours radio-television and permission.

**326. PRO-SEMINAR IN RADIO (3)**

*Greer*

Investigation of special problems in program development for radio. Prereq., 225.

**332. PRO-SEMINAR IN TELEVISION (3)**

*Holmes*

Individual and group projects in the development and production of a television program or series stressing experimental techniques. Prereq., 110.

**360. INSTRUCTIONAL METHODS IN EDUCATIONAL RADIO-TELEVISION (3)**

*Holmes*

Practical applications of television in the public school classroom; utilization of television programs as an adjunct to instruction; preparation of instructional units for telecasting. Two lec., two lab. Prereq., junior standing, permission.

**370. ECONOMICS OF BROADCASTING (3)**

*Summers*

Cost factors in station and network earnings; case studies in budget control, personnel policies and other operating problems. Prereq., 201.

**372. BROADCASTING POLICIES AND REGULATIONS (3)**

*Summers*

Study of socio-political control of broadcasting effect of laws, regulations and public pressures upon programming policies. Prereq., 201.

**375. BROADCAST PROGRAMMING (3)**

*Summers*

Study of programming concepts, resources, and costs; use of research in program selection and scheduling. Prereq., 201.

**379. HISTORY OF BROADCASTING (3)**

*Spalding*

The origins of systems of radio and television communication and their development to the present day. Prereq., senior standing.

**381. RESEARCH (2-4)**

*Staff*

Maximum credit, 6 hrs. Not open to graduate students. Prereq., senior standing and permission.

**385. RADIO AND TELEVISION IN EDUCATION (3)**

*Holmes*

Summary, analysis, application, and evaluation of television and radio research in the teaching and learning process. Prereq., 12 hours radio-television or education, permission.

**402. PEDAGOGY AND RESEARCH IN MASS COMMUNICATION-BROADCASTING (3)**

*Saunders, Summers*

Advanced study of broadcasting education, its philosophy, curriculum development and course planning; examination of related research.

**420. BROADCASTING AND NATIONAL POLICY (3)**

*Summers*

The role of broadcasting in the fulfillment of national goals and aspirations with emphasis on contributions to the political and cultural development of emerging nations.

**440. SOCIAL IMPACT OF MASS COMMUNICATION-BROADCASTING (3)**

*Saunders*

Group and individual investigation into research methodology and literature on the effects of mass media upon society, with particular reference to broadcasting.

**484. SEMINAR-PROGRAMMING AND CRITICISM (3)**

*Spalding*

**485. SEMINAR IN EDUCATIONAL BROADCASTING (3)**

*Holmes*

**494. RESEARCH (1 to 12)**

*Staff*

Individual, guided research on special problems. Projects must be approved prior to registration. Prereq., 8 hrs., permission.

**495. THESIS (As recommended by dept.)**

*Staff*

**595. DISSERTATION (As recommended by dept.)**

*Staff*

NOTE: See also Journalism for courses in radio-television news and advertising.

**SPEECH PATHOLOGY, AUDIOLOGY  
AND SPEECH SCIENCE**

*Professor LaFollette (Area Chairman)*

*Associate Professor Ham*

*Assistant Professors Barnett, Richards, Shallop,*

*Williams*

*Instructors Panagos, Ringler*

**194. SPEECH CORRECTION FOR THE  
CLASSROOM TEACHER (3)**

*Staff*

Nature, causes and treatment of defective speech in the public schools with special reference to the role of the regular classroom teacher. Open to majors in elementary education; others by permission. Not open to majors in Dramatic Art and Speech.

**195. INTRODUCTION TO SPEECH DISORDERS  
(3)**

*Williams*

Symptoms, causes and diagnosis of disorders of speech and voice; techniques of therapy for common speech defects. 3 lec., 3 lab.

**196. PHONETICS I (3)**

*Kantner*

Speech sounds from a sociological, physiological, and acoustical point of view. Mastery of the International Phonetic Alphabet. Training in phonetic transcription.

**262. SPEECH AND HEARING THERAPY IN  
PUBLIC SCHOOLS (2)**

*Williams*

Methods, organization, and implementation of speech and hearing programs in the public schools. Must be taken concurrently with Student Teaching.

**267. THE SPEECH AND HEARING  
MECHANISM (3)**

*Shallop*

The study of the physical properties of the speech signal and their perceptual counterparts. 3 lec., 1 lab. Prereq., 196.

**269. LANGUAGE DEVELOPMENT (3)**

*Barnett*

Normal development of speech and language in relation to language disorders.

**270. STUTTERING I (3)**

*LaFollette*

Nature, causes, development and treatment of stuttering with special reference to evaluation and therapy for children. 1 to 2 hrs. per week of practicum required. Prereq., 195.

**271. CLINICAL AUDIOMETRY (3)**

*Richards*

Use of conventional pure tone audiometry to assess hearing acuity, identification audiometry and its application to education and industry,

school hearing conservation programs. Prereq., 267, 268.

**272. DISORDERS OF ARTICULATION AND  
VOICE (3)**

*Williams*

Phonemic acquisition; voice and articulation tests; causes and treatment of functional and organic voice disorders. 1 to 2 hours per week of practicum required. Prereq., 12 hrs. or permission.

**321. DIAGNOSTIC PROCEDURES IN SPEECH  
PATHOLOGY (3)**

*Ham*

The role of diagnosis in the evaluation of articulation and voice problems; screening test, use of statistics in test construction and basic interview and history procedures. 1 to 2 hrs. per week of observations required. Prereq., 18 hrs. in major with 2.0 avg.

**322. NEUROPATHOLOGIES OF SPEECH AND  
LANGUAGE (3)**

*Staff*

Types, causes, and syndromes and associated problems of the more important neuropathologies of speech and language. 1 to 2 hrs. per week of practicum required. Prereq., 15 hrs. in major including 321, or permission.

**323. AUDITORY REHABILITATION (3)**

*Staff*

Procedures in the rehabilitation of individuals with hearing losses including lip reading, auditory training and speech conservation.

**329. CLINICAL AUDIOMETRY (3)**

*Richards*

Theory and application of speech audiometry, tests of auditory adaptation, and the use of loudness and pitch balancing techniques in determining site of auditory lesion. Prereq., 268, 271.

**347. PRACTICUM IN DIAGNOSIS AND  
THERAPY (1-12)**

*Staff*

Diagnosis, planning of therapy, treatment, and periodic staffing of clinic patients. Required of all majors. Undergraduates limited to 3 hrs. 1 lec., 3-36 lab. Prereq., 321 or permission.

**368. STUTTERING II (3)**

*Ham, Williams*

Nature, causes, development and treatment of stuttering with the emphasis on theory and stuttering problems in adults. Required practicum. Prereq., 270, 12 hrs., of psychology, and permission.

**369. PHONETICS II (3)**

*Kantner*

History of phonetics, phonetics in linguistics, and the experimental investigation of speech sound production. Advanced training in sound transcription. Prereq., 196.

## 372. VOCAL PATHOLOGIES (3)

*LaFollette*

Organic and functional voice problems and therapy with emphasis on research problems in diagnosis and rehabilitation. Prereq., 267, 321, and 272, or permission.

## 405. CLINICAL ADMINISTRATION (3)

*Ham, LaFollette*

Organization and administration of clinical programs in speech pathology and audiology.

## 418. LANGUAGE PROBLEMS OF THE MENTALLY RETARDED (3)

*Barnett*

Methods of evaluating the level of language development of the trainable, mentally retarded child with principles of therapy.

## 419. SPEECH DISORDERS AND OROFACIAL ANOMALIES (3)

*Williams*

Developmental and traumatic disfunctions of the facial structure in relation to speech, audiological, psychosocial, physical and surgical problems. Research techniques and specialized instrumentation.

## 421. ADVANCED DIAGNOSTIC PROCEDURES (3)

*Ham*

Evaluative techniques in speech pathology such as laryngeal examinations, respirometry and differential diagnosis. Special diagnoses, etiologies, tests and methods. Required practicum in diagnostic clinic. Prereq., 321 or equivalent, 9 hrs. psychology, and permission.

## 422. APHASIA (3)

*Ham*

Theories in aphasia and evaluation and rehabilitation of adult aphasics. Required observation. Prereq., permission.

## 423. CEREBRAL PALSY (3)

*Staff*

Types, related problems, and theories of rehabilitation in cerebral palsy. Prereq., permission.

## 465. LANGUAGE FOR THE DEAF AND HARD OF HEARING (3)

*Richards*

Stage by stage instruction for the teaching of speech to deaf and hard of hearing children of all ages. Prereq., 307, 319, 323 or equivalent.

## 466. ACOUSTIC PHONETICS (3)

*Shallop*

The acoustic properties of speech and their importance in speech perception. Prereq., 268 or permission.

## 467. PHYSIOLOGICAL ACOUSTICS (3)

*Shallop*

The ear as a transducer and analyzer. Consideration of the electro-physiological and mechanical properties. Prereq., Psych. 312.

## 468. SEMINAR IN SPEECH SCIENCE (3)

*Shallop*

Advanced study of research and theoretical positions in the areas of speech analysis, perception and production. Prereq., 6 hrs. in speech science or permission.

## 469. LANGUAGE ACQUISITION AND BEHAVIOR (3)

*Barnett*

Analysis of language and cognitive development, verbal learning, and the structural properties of speech and language. Prereq., 269 or permission.

## 470. ADVANCED CLINICAL AUDIOLOGY (3)

*Staff*

Advanced techniques in the assessment of hearing losses with particular attention to problem areas and research. Prereq., 466.

## 476. RESEARCH DESIGN (3)

*Staff*

Philosophy of research, formulation of hypotheses, design of experiments, presentation of research findings and interpretation of results. Required research projects.

## 492. SEMINAR IN SPEECH CORRECTION (3)

*Staff*

Current literature and advanced research in the field of speech correction. Individual reading projects. Class reports and discussions. Prereq., 12 hrs., including 195.

## 494. RESEARCH (1-12)

*Staff*

Individual, guided research on special problems. Projects must be approved prior to registration. Prereq., permission.

## 495. THESIS (As recommended by dept.)

*Staff*

## 595. DISSERTATION (As recommended by dept.)

*Staff*

## THEATRE AND INTERPRETATION

*Professor Walker (Area Chairman)*

*Associate Professor Lane*

*Assistant Professors Conover, Hahne, McGraw, Winters*

*Instructors Abbott, Buglio*

*Visiting Artist and Lecturer Coggan*

## 10. INTRODUCTION TO THEATRE (2)

*Walker*

Survey of basic elements of drama and theatre.

**21. STAGE SCENERY (3)***Abbott, Winters*

Basic principles and practices of scenic planning and construction. 3 lec., 2 lab.

**99. MOVEMENT AND PANTOMIME (2)***Hahne*

Principles and techniques of expressive movement.

**105. PLAY PRODUCTION (3)***Hahne, McGraw*

Fundamentals of theatrical production. Laboratory experience. Not open to majors in theatre.

**107. VOICE TRAINING (2)***Hahne, Lane*

Advanced voice training for majors in Theatre. Prereq., Speech 7 and permission.

**123. STAGE LIGHTING (3)***Abbott, Winters*

Basic principles and practices of theatrical lighting. 3 lec., 2 lab.

**147. THEATRE LABORATORY (1 or 2)***Winters*

Supervised individual projects. Prereq., 3 hrs. and permission. Maximum credit in course, 6 hrs.

**148. COSTUME AND MAKEUP (2)***Buglio*

Fundamentals of costume and makeup for the stage. 1 lec., 2 lab.

**204. ACTING I (3)***Lane*

Elementary principles and techniques of acting. 1 lec., 4 lab. Prereq., 99 and Speech 34.

**207. HISTORIC COSTUME (2)***Buglio*

Survey of period costume and its adaptation to the stage. Prereq., 148.

**230. DEVELOPMENT OF DRAMA I (3)***McGraw, Walker*

Survey of drama from classical Greece through the Renaissance.

**231. DEVELOPMENT OF DRAMA II (3)***McGraw, Walker*

Survey of drama following the Renaissance through the 19th century.

**250. DIRECTING (3)***Hahne*

Principles and practices of directing for the stage. 2 lec., 4 lab. Prereq., 12 hrs., including 204 and permission.

**303. ADVANCED ORAL INTERPRETATION (3)***Conover*

Analysis and oral presentation of the principal types of literature. Prereq., Speech 34.

**304. ACTING II (3)***Lane, McGraw*

Rehearsal and performance in roles of different types. 1 lec., 4 lab. Prereq., 204 and permission.

**306. ADVANCED STAGECRAFT (3)***Abbott, Winters*

Special problems in planning and mounting scenery and lighting. 3 lec., 2 lab. Prereq., 12 hrs. including 21 and 123.

**307. ADVANCED LIGHTING (3)***Abbott, Winters*

Special problems in lighting design and execution. 3 lec., 2 lab. Prereq., 12 hrs. including 21 and 123.

**321. DRAMATIC CRITICISM (3)***Conover, Walker*

The principles of dramatic criticism from Aristotle to the present. Prereq., 12 hrs. or permission.

**322. DRAMATIC COMPOSITION (3)***Walker*

Theory and practice of dramatic writing. Prereq., 12 hrs. or 12 hrs. English and/or Journalism. May be repeated for maximum credit of 6 hrs.

**323. SCENE DESIGN (3)***Abbott, Winters*

Theory and practice of scenic design. Prereq., 21 and 123 and permission.

**324. CONTEMPORARY THEATRE (3)***Lane*

Trends and developments in 20th century theatre.

**333. ORAL INTERPRETATION OF DRAMA (3)***Conover*

Analysis and oral reading of dramatic literature. Prereq., Speech 34.

**347. WORKSHOP IN SUMMER THEATRE (6-8)***Lane, Winters*

Not open to graduate students. Maximum credit in course 16 hrs. Prereq., permission.

**351. ADVANCED DIRECTING (3)***Conover*

Prereq., 250.

**353. DIRECTING PERIOD PLAYS (3)***Lane*

Principles and techniques of staging pre-modern drama. Prereq., 351 and permission.

**355. THEATRE MANAGEMENT (3)***McGraw*

Principles and practices of management in the performing arts. Prereq., 12 hrs. and senior standing.

**359. STYLES OF ACTING (3)***Conover, McGraw*

Advanced techniques of acting in relation to the form and content of pre-modern and verse drama. Laboratory experience in the creation of roles. 1 lec., 4 lab. Prereq., 304.

**377. THEATRICAL COSTUME DESIGN (3)***Buglio*

Costume design for the theatre; techniques of rendering costume plates, and elements of pattern drafting for period costume. 3 lec., 2 lab. Prereq., 207 or permission.

**381. RESEARCH (2 to 4)***Staff*

Maximum credit, 6 hrs. Not open to graduate students. Prereq., senior standing and permission.

**422. RENAISSANCE THEATRE (3)***Conover*

The development of the theatre from the rise of humanism to the establishment of the Baroque style.

**423. BAROQUE THEATRE (3)***Walker*

Detailed study of the Baroque period with special attention to the theatre arts as expressions of the aesthetic, social and political philosophies of the times.

**424. NINETEENTH CENTURY THEATRE (3)***Walker*

A study of the major developments of the nineteenth century European theatre in relation to the aesthetic and social forces of the time.

**447. PROBLEMS IN SUMMER THEATRE OPERATION (3 to 6)***Conover, Lane*

Special problems of production and management in relation to the summer theatre program. Maximum credit, 6 hrs. Prereq., permission.

**480. SEMINAR IN DESIGN OF TECHNICAL PRODUCTION (3)***Staff*

Prereq., 18 hrs. including 323 or equivalent.

**481. SEMINAR IN DIRECTING OR MANAGEMENT (3)***Staff*

Prereq., 18 hrs. including 351 or equivalent.

**482. SEMINAR IN DRAMATIC THEORY AND CRITICISM (3)***Staff*

Prereq., 12 hrs. including 321 or equivalent.

**483. SEMINAR IN THEATRE HISTORY (3)***Staff***494. RESEARCH (1 to 12)***Staff*

Individual guided research on special problems. Projects must be approved prior to registration. Prereq., permission.

**495. THESIS (As recommended by dept.)***Staff*

Prereq., permission.

**SPANISH**

(See Modern Languages)

**STATISTICS***Professor Soltow (chairman)**Assistant Professors Holiday, Shukla**Instructor Bateman***155. BUSINESS STATISTICS (4)***Staff*

Elementary statistical methods used in business. 3 lec., 3 hour lab. Prereq., Mgt. 100.

**271. ANALYSIS OF STATISTICAL DATA (3)***Staff*

Study of reports and forecasts of business firms, bureaus, and agencies. Application of statistical methods to specific problems. Prereq., 155.

**303. STATISTICAL QUALITY CONTROL (3)***Staff*

The application of sampling theory to industrial operations. A course in industrial statistics especially recommended for students interested in production control. Prereq., 155.

**310. INTERMEDIATE (3)***Staff*

Techniques of small sample tests applied in marketing and opinion polling, statistical quality control, economics, and government statistics.

**341. BUSINESS CYCLES (3)***Staff*

A study of the nature, causes, and theory of the business cycle together with a survey of techniques of description and control. Prereq., 155 or with 155.

**345. FORECASTING (3)***Staff*

The theory of prediction of social data and the theory of business forecasting with special reference to economic conditions and the business cycle. Prereq., 155 or with 155.

**350. RECENT TRENDS IN STATISTICAL TECHNIQUES (3)***Staff*

Applications to business and economics, including input-output tables, quantified economic models,

linear programming, and decision making. Prereq., 155.

**381. RESEARCH IN BUSINESS STATISTICS  
(1 to 8)**

*Staff*

Prereq., 18 hrs. business administration including 155 and permission.

**391. SEMINAR IN BUSINESS STATISTICS  
(2 to 4)**

*Staff*

Maximum credit in course, 10 hrs. Prereq., 18 hrs. business administration, including 155 and permission.

Additional course: Math. 331-332—Theory of Statistics.

**THEATRE**

(See Speech)

**ZOOLOGY**

**BACTERIOLOGY**

*Professors Elliott, Frey, Seibert (chairman)  
Associate Professors Lawrence, McQuate, W.  
Peterson, Vallowe  
Assistant Professors Heck, Huling, Maier,  
Romoser, Wilson  
Instructor Allen*

The major requirement for the A.B. and B.S. degree is a minimum of 24 hours in approved departmental courses. These courses must include Zoology 3-4, 107, and one semester each of anatomy and physiology. For correct choice of latter courses, see outlines of preprofessional curricula and course descriptions. The following extra-departmental courses are required: Chem. 3-4, 99 (organic chemistry is virtually a necessity), one semester (two recommended) of mathematics, Phil. 1 or 109 or 110.

Curricula are outlined in the College of Arts and Sciences section of the catalog for students preparing for medicine, dentistry, physical therapy, and medical technology. Students who substitute a year in medical or dental school for the senior year at Ohio University are credited with 8 hours on the major for the A.B. or B.S. degrees. Those who complete the training in medical technology at Mount Carmel Hospital or at any other hospital approved by the Bureau of Registry and by Ohio University are credited with 32 hours toward the B.S. degree. Students who wish to teach and to complete requirements for the A.B. or B.S. degree with a major in zoology, may meet requirements for certification for teaching. Students are able to specialize in Bacteriology within the department by the appropriate choice of courses.

**3. PRINCIPLES OF ZOOLOGY (4)**

*Staff*

Elementary physiology and anatomy of a living organism to illustrate principles of life: metabolism, growth, reproduction, and heredity. 3 lec., 2 lab. No credit if student has had Biol. 1, 2. (Each sem.)

**4. PRINCIPLES OF ZOOLOGY (3)**

*Staff*

A survey of the important animal phyla to illustrate major biological principles; the relationships of animals and their environment; the doctrine of evolution as the underlying principle. 2 lec., 2 lab. Prereq., 3. No credit if student has had Biol. 1, 2. (2nd sem., yearly.)

**107. PRINCIPLES OF HEREDITY (3)**

*McQuate*

An introduction to the fundamental principles of heredity and variation. Practical applications to animal and plant breeding, human heredity, and race betterment. Prereq., 4, or Biol. 2, or 6 hrs. botany. (1st sem., yearly.)

**108. ELEMENTARY LABORATORY GENETICS  
(2)**

*McQuate*

Breeding experiments primarily with Drosophila designed to illustrate the principles of heredity. 4 lab. Prereq., 107. (2nd sem. yearly.)

**113. BIOLOGY OF VERTEBRATES (4)**

*Seibert*

A study of vertebrate animals, other than birds, including classification, life histories, and other pertinent topics. Identification of museum collection with emphasis on Ohio specimens; collecting and preserving techniques; 2 lec., 4 lab., field work. Prereq., 4. (1st sem., 1966-67.)

**118. ORNITHOLOGY (3)**

*Seibert*

A study of birds and bird biology, including classification, migration, general anatomy and physiology, life histories. Emphasis on field identification. 2 lec., 2 field work. Prereq., 4, or Biol. 2. (2nd sem., yearly.)

**120. COMPARATIVE VERTEBRATE ANATOMY  
(4)**

*Elliott*

A comparative study of body systems of vertebrates, with laboratory work covering various type forms. 2 lec., 4 lab. Prereq., 4. (2nd sem., yearly.)

**121. ELEMENTS OF ANATOMY (3)**

*Heck*

Course for medical technology, pre-mortuary and non-major students. Particular emphasis is given to a study and dissection of the head, thorax, and abdomen of the cat. 2 lec., 2 lab. Prereq., 4. (1st sem., yearly.)

**133. ANATOMY AND KINESIOLOGY (4)***Trepp, Vallowe*

(Same as P.E. 133.) Structure of body systems with particular emphasis on the skeleton, joints and muscles, and a study of muscular movement. 2 lec., 4 lab. Prereq., 3. (1st sem., yearly.)

**134. HUMAN PHYSIOLOGY (3)***Vallowe*

(Same as P.E. 134.) Functions of the various tissues, organs and systems of mammals as applied to the human. Recommended for physical education, physical therapy, and home economics students. Prereq., 121 or 133. (2nd sem., yearly.)

**216. ANIMAL COMMUNITIES (4)***Seibert*

A study of animals in relation to their surroundings. Discussion of the general principles governing animal distribution and animal communities. 2 lec., 4 lab. or field work. Prereq., 4. (2nd sem., yearly.)

**219. GENERAL ENTOMOLOGY (4)***Romoser*

The structure, habits, and life histories of insects, with practice in collecting, mounting, and identification. 2 lec., 4 lab. Prereq., 4. (1st sem., yearly.)

**225. ANIMAL MICROTECHNIC (1)***Peterson*

The principles and methods of preparing animal material for microscopic study. Principles of the microscope and its accessories. 1 lec., 4 lab. Prereq., 4, junior or senior rank. (1st sem., yearly.)

**241. ELEMENTARY BACTERIOLOGY (4)***Lawrence*

Morphology and physiology of bacteria, staining reactions, preparation of media and the biochemical reactions resulting from bacterial activity. Department majors are referred to Zool. 311. 2 lec., 4 lab. Prereq., 4 or Biol. 2, or 6 hrs. botany, or 8 hrs. chemistry. (Each sem.)

**301. COMPARATIVE VERTEBRATE ANATOMY—MAMMALIAN (4)***Elliott*

The anatomy of mammals with particular emphasis on the cat. 2 lec., 4 lab. Prereq., 120. (1st sem., yearly.)

**302. VERTEBRATE EMBRYOLOGY (4)***Peterson*

All phases of vertebrate development are considered, and particular emphasis in laboratory is given to the chick and pig. 2 lec., 6 lab. Prereq., 120 or 121. (2nd sem., yearly.)

**304. HISTOLOGY (4)***Heck*

A study of the fundamental body tissues of vertebrates followed by a study of histology of the body systems. 2 lec., 4 lab. Prereq., 120 or 121. (2nd sem., yearly.)

**305. PRINCIPLES OF PHYSIOLOGY (4)***Wilson*

A comparative study of regulatory systems in organisms and their relation to chemical and physical events in cells and solutions. 2 lec., 6 lab. Prereq., 120 or 121, Chem. 4, 99. Organic chemistry valuable. (1st sem., yearly.)

**306. CELLULAR PHYSIOLOGY (4)***Wilson*

A study of cell chemistry and structure as related to various functional activities; methods for cell studies. 3 lec., 3 lab., Prereq., Organic Chem. (2nd sem., yearly.)

**307. PRINCIPLES OF ENDOCRINOLOGY (4)***Vallowe*

A study of the organs of internal secretion from the standpoint of their phylogeny, embryology, micro-anatomy, and physiology. 2 lec., 4 lab. Prereq., 120 or 121; 305 or 306. (Given upon sufficient demand.)

**308. ADVANCED GENETICS (Same as Bot. 308.) (3)***Cohn, McQuate*

Gene action and fine structure; biochemical, microbial and radiation genetics; cytoplasmic inheritance. 3 lec. Prereq., Botany 232 or Zool. 107, organic chemistry. (2nd sem. 1966-67.)

**309. PHYSIOLOGICAL CHEMISTRY (2)***McQuate*

Metabolism of carbohydrates, proteins, and fats; principles of enzyme action; chemistry of and tests for biological compounds. 2 lec. Prereq., 6 hrs., organic chemistry. (1st sem., yearly.)

**310. RADIATION BIOLOGY (Same as Bot. 310.) (4)***Larson*

A study of the techniques of the use, detection and interpretation of radioactive tracers in biological problems and the effects of some radiations on living tissue. 2 lec., 4 lab. Prereq., in Zoology: 8 hrs. beyond 4, incl. 305; in Botany: 9 hrs. beyond 4; incl. 205.

**311. GENERAL BACTERIOLOGY (4)***Maier*

A study of the structure, classification and relationships of bacteria; preparation of cultures, staining, and biochemical reactions. Not open for graduate credit to majors in bacteriology. 2 lec., 4 lab. Prereq., 4 and organic chemistry. (Each sem.) Not open to students who have had 241.

**312. PATHOGENIC BACTERIOLOGY (4)***Lawrence*

Microorganisms in relation to diseases. A study of disease manifestations, methods of transmission, means of protection and immunity. 2 lec., 4 lab. Prereq., 311. (2nd sem., yearly.)

**314. MICROBIOLOGICAL TECHNICS (3)***Lawrence, Maier*

A practical course designed to give the student extensive experience in the use of bacteriological techniques and equipment. 6 lab. Prereq., 241 or 311; organic chemistry. (1st sem., yearly.)

**316. ANIMAL PARASITES (4)***Heck*

Parasites in relation to human disease. Parasites infesting man, their life histories, the diseases they produce, and means of prevention. 2 lec., 4 lab. Prereq., 10 hrs. (2nd sem., yearly.)

**317. ADVANCED GENERAL BACTERIOLOGY (4)***Lawrence*

Growth requirements, enzyme systems, intermediary and end products formed, influence of environmental factors and bacterial taxonomy. 2 lec., 4 lab. Prereq., 241 or 311, organic chemistry. (1st sem., yearly.)

**319. PHYSIOLOGICAL BACTERIOLOGY (4)***Maier*

The function and metabolism of bacteria, with pertinent laboratory work illustrating fundamental principles and various experimental techniques. 2 lec., 4 lab. Prereq., 241 or 311, organic chemistry. (2nd sem., yearly.)

**320. ADVANCED ENTOMOLOGY (4)***Romoser*

Insect morphology and the principles of insect classification and identification, with emphasis on the more extensive orders. 2 lec., 4 lab. Prereq., 219. (2nd sem., yearly.)

**323. PROTOZOLOGY (4)***Peterson*

Life histories, physiology, and relationships of representatives from all major groups of protozoa. 2 lec., 4 lab. Prereq., 12 hrs. (1st sem., 1966-67.)

**325-326. INVERTEBRATE ZOOLOGY (4-4)***Huling*

Structure, relationships, and life histories of representative members of the various invertebrate phyla, together with related general principles. 2 lec., 4 lab. Prereq., 4 hrs.

**327. ANIMAL ECOLOGY (4)***Seibert*

An introduction to population dynamics; the role of temperature, photoperiod, energetics, on ecological distribution. Experimental methods in field and laboratory. 2 lec., 4 lab. or field work. Prereq., 216.

**331. EVOLUTION (2)***Seibert*

The evidence for, and current ideas and research on, the mechanisms of organic evolution. Prereq., 107.

**335. GENERAL BIOCHEMISTRY (3)***McQuate*

The structure, properties, and metabolic significance of the important constituents of living matter. 3 lec. Prereq., lab course in animal or plant physiology, organic chemistry. Not open to med. tech., home ec., or predent. and premed. majors. (1st sem., yearly.)

**336. GENERAL BIOCHEMISTRY LABORATORY (2)***McQuate, Wilson*

A laboratory course to accompany Zool. 309 or 335. 6 lab. Prereq., 309 or 335 or with 309 or 335. (Each sem.)

**343. BIOLOGICAL STUDIES (1 to 4 a semester in any of the following areas)**

Semi-independent studies under the guidance of the instructor. Maximum credit in any one area, 8 hrs. Prereq., 14 hrs., junior standing, permission.

- a. **BACTERIOLOGY**—studies in water, dairy, and pathogenic bacteriology; serology and advanced technic.

*Lawrence, Maier*

- b. **ECOLOGY**—field and laboratory studies of the relationship between animals and their surroundings.

*Seibert*

- c. **ENTOMOLOGY**—classification, physiology, life histories, and economic aspects of insects.

*Romoser*

- d. **GENETICS**—breeding experiments and library work in the field of heredity.

*McQuate*

- e. **INVERTEBRATE ZOOLOGY** — classification, structure, embryology, and life history of invertebrates.

*Huling, Peterson*

- f. **PARASITOLOGY**—animal parasites.

*Heck, Peterson*

- g. **PHYSIOLOGY AND BIOCHEMISTRY**—physiological and related experimental studies.

*Vallowe, Wilson*

- h. **READINGS IN BIOLOGY**—biological history, theory, and advances.

*Staff*

- i. **VERTEBRATE ANATOMY**—gross and microscopic anatomy, embryology, histological technic.

*Allen, Elliott, Peterson*

- j. **VERTEBRATE ZOOLOGY**—classification, life history studies.

*Seibert, Vallowe*

**382. ADVANCED TOPICS (1 to 4)***Staff*

Specialized topics not otherwise available to advanced students. Prereq., permission.

- a. BIOCHEMISTRY OF REPRODUCTIVE HORMONES.

*Vallowe*

- b. RADIATION PHYSIOLOGY.

**391. SEMINAR IN ZOOLOGY (1)***Staff*

Presentation of research or readings in current literature. Recommended for senior majors; required of graduate students. Prereq., permission. (Each sem.)

**413. BACTERIOLOGICAL REVIEW (2)***Frey, Lawrence, Maier*

An advanced theoretical course in bacteriology. Prereq., 12 hrs. bacteriology, permission. (given upon sufficient demand.)

**415. PHYSIOLOGICAL REVIEWS (2)***Wilson*

An advanced lecture and conference course, involving literature review in various specialized phases of physiology and biological chemistry. Prereq., 8 hours of physiology, 309 or 335, permission. (Given upon sufficient demand.)

**442. ADVANCED BIOCHEMISTRY (3)***McQuate, Wilson, Winkler*

(Same as Chem. 442.) Enzyme kinetics, metabolic pathways, protein synthesis and related topics. 3 lec. Prereq., 335, physical chem. (2nd sem., yearly.)

**485. RESEARCH IN BIOLOGY (1 to 4)***Staff*

Research work in all areas listed under 343. This course fulfills the thesis requirement. Maximum credit in course, 4 hrs. Prereq., 20 hrs., permission.

**MEDICAL TECHNOLOGY**

*Mount Carmel Hospital Staff  
H. B. Davidson, M.D., Director*

The following courses are offered at Mount Carmel Hospital, Columbus, Ohio. See curriculum in the College of Arts and Sciences section of the catalog.

**291. URINALYSIS Four weeks (3)**

The physical, chemical, and microscopic study of urine.

**292. HEMATOLOGY Twelve weeks (8)**

Total red and white blood counts, hemoglobin determination, differential counts of white blood cells, sedimentation rates, blood typing, and blood cross-matching.

**293. BACTERIOLOGY, SEROLOGY, AND PARASITOLOGY Six weeks (10)**

Review of medical bacteriology with particular emphasis upon and reference to methods of recognition and detection of types of bacteria; methods in which blood serum can be used in recognition and diagnosis of disease; review of parasites pathogenic to man; methods of examining feces; microscopic and bacteriologic study of sputum.

**294. CHEMISTRY Fourteen weeks (9)**

A study of the methods of blood chemistry determinations; methods of gastric analysis and the more complicated chemical procedures for urine and other body products.

**295. HISTOLOGIC TECHNIC Four weeks (1)**

Reviews of fundamental procedures in the preparation of tissue for microscopic examination; study of special stains commonly used in microscopic examination of human tissue; experience in handling, on a routine basis, large amounts of human tissue for microscopic study.

**296. BASAL METABOLISM, ELECTROCARDIOGRAPHY, AND RADIOISOTOPES Two weeks (1)**

Study of the methods of determining the basal metabolic rate, and a study of the electrocardiograph and methods of taking electrocardiographic tracings.



*Edwin L. Kennedy, chairman of the University's Board of Trustees, convened the President's Convocation honoring General of the Army and former President of the United States Dwight D. Eisenhower.*

# TRUSTEES, OFFICERS and FACULTY

## BOARD OF TRUSTEES

	Term Expires
EDWIN L. KENNEDY, New York, New York .....	1966
JOHN W. GALBREATH, Columbus .....	1967
FRED H. JOHNSON, Columbus .....	1968
WAYNE E. BROWN, Columbus .....	1969
JOSEPH B. HALL, Cincinnati .....	1970
RUSSELL P. HERROLD, Zanesville .....	1971
DON M. CASTO, JR., Columbus .....	1972
DUNCAN M. BAXTER, Portsmouth .....	1973
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## OFFICERS

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## ADMINISTRATIVE OFFICERS IN THE COLLEGES AND DIVISIONS

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THE COLLEGE OF FINE ARTS .....	Jack S. Morrison, Ph.D., <i>Dean, Space Arts Building</i>
THE SCHOOL OF ARCHITECTURE .....	James I. Clark, Ph.D., <i>Director, Space Arts Building</i>
THE SCHOOL OF DRAMATIC ART AND SPEECH .....	Claude E. Kantner, Ph.D., <i>Director, Speech Building</i>
THE SCHOOL OF MUSIC .....	Karl Ahrendt, Ph.D., <i>Director, Music Hall</i>
THE SCHOOL OF PAINTING AND ALLIED ARTS .....	Frederick D. Leach, Ph.D., <i>Director, Space Arts Building</i>
THE HONORS COLLEGE .....	Samuel J. Jasper, Ph.D., <i>Director, Tupper Hall</i>
THE GRADUATE COLLEGE .....	Taylor Culbert, Ph.D., <i>Dean, Cutler Hall</i>
OFF-CAMPUS ACADEMIC PROGRAMS .....	Edward M. Penson, Ph.D., <i>Dean, Cutler Hall</i>
UNIVERSITY EXTENSION .....	Elizabeth B. Stanton, Ph.D., <i>Director, Agriculture and Household Arts Building</i>
THE DIVISION OF PHYSICAL EDUCATION AND ATHLETICS .....	William D. Rohr, M.Ed., <i>Director, Grover Center</i>
THE RESERVE OFFICER TRAINING CORPS .....	Cecil C. Helena, B.S., Colonel, Infantry, <i>Professor of Military Science, Carnegie Hall</i>
	Donald L. Barrett, A.B., Lt. Col., Air Force, <i>Professor Aerospace Studies, Carnegie Hall</i>
THE SUMMER SESSION .....	Lloyd I. Watkins, Ph.D., <i>Director, Cutler Hall</i>

## FACULTY AND ADMINISTRATION DIRECTORY

- Abbott, Stanley E. – A.M.  
*Instructor in Theatre*
- Abel, John R. – A.B., C.P.A.  
*Part-time Instructor in Accounting*
- Adams, Brenda G. – A.M.  
*Instructor in French*
- Adams, Jane C. – M.S.  
*Instructor in Home Economics*
- Adams, John H. – M.S.Ed.  
*Assistant Professor of Industrial Arts*
- Adams, Nancy  
*Administrative Assistant to the Director of The Ohio Plan*
- Adams, O. Eugene – Ph.D., P.E.  
*Associate Professor of Mechanical Engineering*
- Ahrendt, Karl – Ph.D.  
*Director, School of Music, and Professor of Music*
- Alden, Vernon R. – M.B.A., LL.D., L.H.D.  
*President*
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*Instructor in Zoology*
- Allen, Walter A. – A.B.  
*Lecturer in Photography*
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- Anderson, Amos C. – Ph.D.  
*Professor of Psychology*
- Anderson, Erma I. – M.S.Ed.  
*Assistant Dean of Women, and Instructor in Human Relations*
- Anderson, Evelyn (Mrs.)  
*Associate Professor of Education (Nigerian Western Region Project)*
- Anderson, Joseph L. – A.B.  
*Lecturer in Photography*
- Antorietto, Thomas – B.B.A.  
*Accountant*
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All University facilities are conveniently accessible. This aerial view looks northwest over the East Green residence hall complex and the College Green, toward downtown Athens. The West Green residence hall complex is shown at the upper left.









